The Upper Functional G.I. Disorder

# The Pseudo-ulcer



# Ulcer-like symptoms: no G.I. pathology

pregnancy, laciation, or in women of childbearing age requires that its potential benefits be-weighed against its possible brards. As with all anticholinergic drugs, at inhibit ing effect on factation may occur.

ing effect on lactation may accuse.

Frequentions in telerity and debilitated, limit dosego to smallest effective amount to precluide development of smallest effective amount to precluid development and consumeration or confusion (on tome than two capacity and the constant of the confusion of t

The patient is convinced it's an ulcer. However, symptoms are not quite typical, and x-ray findings are negative. These findings and the results of additional diagnostic procedures exclude an organic basis for the patient's complaints. A diagnosis of 'upper functional gastrointestinal disorder' is made, which is supported by the fact that episodes of painful symptoms coincides with episodes of excessive anxiety, as indicated by the history.

It may be useful to explain to the patient the mechanism by which emotious upset normal G.I. functioning, resulting in hypersecretion and hypermotil-

ity and thus causing such symptoms as nauity and thus caming such ayuptoms as nau-see and epigastric pain. In upper functional gastrointestinal disorders, counseling by the primary physician can often help the patient to understand how excessive anxiety may cause finre-ups of G.I. symptoms.

A disproportionate number of patients seen by the general practitioner suffer from functional disorders, as do more than half of those seen by the gastroenterologist.\* Where milder cases may respond to counsel-

Before prescribiog, please consult complete product information, a summary of which follows

Indications Symptomatic relief of hypersecretion, hyper-motility and anxiety and tension states associated with organic or functional garactonic stated disorders; and as adjunctive ther-apy in the management of peptile ulcor, gastrili, adoubtells, irritable bowel syndrome, spassic colitis, and mild ulceralive colitis.

colitia Controindications: Patienta with glaucoma: prostatic hyper-trophy and benign biadder neck obstruction; known hyper-sensitivity to chlordiazepoxide hydrochloride and/or clidinium

bromide.

Warnings Caution patients about possible combace cheest will be sobbel and other CNS depressors. As with all oxygenetic and other CNS depressors. As with all oxygenetic repairing complete mental steriles beautions occupillons revening complete mental steriles. Competition in the complete mental steriles. The opportunity is such appropriately been reported on recommended does, we caution rately been reported on recommended does, we caution rately been reported on recommended does, we caution increase dougs; withdrawal symptoms (including commended and competition of the competition of t

In these cases, Librax as an adjunct can greatly contribute to the course of therapy. Its ilual action can offer relief of both painful symptoms and excessive anxiety, because each capsule contains 5 mg chlordiszepoxide HCl and 2.5 mg cildnium Br. The antianxiety action of Librium (chlordiszepoxide HCl) makes Librax exceptional contains 5 mg chlordiszepoxide HCl) makes Librax exceptions. An adjunct in anxiety-related upper

among drugs for certain gastrointestinal disorders associated with excessive anxiety, the elidintum bromide (Quarzan "") component furnishes dependable antisecretory-antispasmodic action. Dosage is flexible; it functional G.I. disorders may be adjusted according to your patient's requirements within the range of lor 2 capsules three or four times deily, up to 8 capsules daily in divided doses.

ing alone, if symptoms are severe and disabling to any degree, a suitable regimen may include medication to reduce the symptoms and the excessive anxiety that often provokes these distressing symptoms.

\*Rome HP, Brannick TL: Orientation and mechanism of functional disorders; clinicophysi-ologic correlation, cbap. 133, in Gastroenterology, edited by Bockus HL. Philadelphia, WB Saunders Company, 1965, p. 1115

ness, aixuis and consulors may occur, especially to the elderly and debilitated. These are reversible in most invances by proper dosage adjustment, but are also occasionally elsered at the lower dosage ranges. In a few instances synope has been reported. Also encountered are holated intenset of an entire the constraint of the constrai

# **Medical Tribune**

world news of medicine and its practice-last, accurate, complete

Wednesday, April 23, 1975

making rounds

Vol. 16, No. 16

izes emergency craation of

joint undarwriting associa-

ty companias in stata. Sources at state medical

association told MT there

have been few big suita and

MALPRACTICE-MD: In Maryland,

swarda, but premiums have reflected aituation in other

lawa imposing \$300 tax on

M.D.s to capitalize new in-

aurance co., and requiring

shars in writing malpractice

all carriers in atata to

coverage, were enseted by

Asaembly. May 31 ia data

and Marine for quitting atate. Asaembly also approwed reduction of liability

from 8 to 5 years. Bill

expected to pass.

seeking to take malpractice

cases out of courts is not

OPERATING ROOMS in Chicago

of the cime that thay are

staffed and raady, aays s

Chicago Roapital Council

are in use only 53 par cent

atudy. Optimum utilization

ia 75-80 per cent. Biggist

cause of undsrutilization

ia praferance of aurgeona

to operate morninga. Authora

of study suggest new system

of "block" scheduling where-

and reaerved, and incorpora-

tion of little-used "specia-

operating theaters. Early

reaponse of administrators

and surgeona has been en-

couraging, Howard F. Cook,

President of Council, told

is nation-wide."

Mr. adding, "I wouldn't be surprised if this problem

by hours would be assigned

lity rooms" into larger

announced by St. Paul Fire

tion composed of all casual-

MALPRACTICE-IDAHO: Legisla-NEW YORK-Follow-up studies of young children who had at birth ex-creted cytomegalovirus (CMV) have tion limiting liability to \$150,000 for injury to one maraon will take effect June l, legialature acting overwhelmingly after Argonaut Co. announced termination of coverage to M.D.s and cause" of profound deafness. 300% premium hike for hoa-These findings emerged from depitals. New law also limita sttorney's faaa, permita hospitals and M.D.a to form own insurance firms, author-

The study population included all hut nine of the 53 infants discovered to

Most children with enngenital CMV



shown that such congenital infection is associated with lower IQs than the levels found among matched or random controls, and may also be "a significant

tailed examinations of 44 children tested 3.5 to seven years after their birth, Dr. James B. Hanshaw, of the University of Rochester School of Medicine and Dentistry, reported here.

have cord sera positive for CMV-IgM antibody when 8,644 consecutive sera specimens were tested at a Rochester hospital between 1967 and 1970. One positive infant had lived only a short time, another was stillhorn, and the remaining seven positives were unavailable for examination.

infection are asymptomatic in the newhorn perind and fewer than 5 per cent exhibit clinical signs that arouse suspicion of CMV infectinn, Dr. Hanshaw emphasized at a sympnsium presented by the New York University School of



A patient with congenital cytomegalo-virus infection detected by acreening of conl serum for CMV-IgM natibody. The patient is microcephatic, hypotonic, and deaf, and has psychomotor retardation. No abnorma noted during the newborn period, ac-Continued on page 13 cording to Dr. James Hanshaw.

**Complications No Matter** 

# CPK Isoenzyme Sensitive Index Of Infarct's Size

HOUSTON-The size of a myocardial inferct can be evaluated accurately even in patients with complicated inlarction by analyzing serum values of one isoenzyme of creatino phosphokinase (CPK), the American College of Cardiology was told here.

Investigators at Washington Univer-sity School of Medicine said that this "MB" Isoenzyme is found primarily in myocardium and thus provides a "sensitive and more specific index of anyocardial damage than total CPK," which reflects release of enzyme from noncardiac sources.

They noted that noncardiae CPK may influence aerum activity after intramuscular injection, hypotension, or

In a separate repart, members of the research group also preseated evidence that assays of the MB isoenzyme in acrum samples from patients undergo-ing cardiac estheterization can distinguish the CPK elevations accompany-ing these procedures from CPK

# **MD Resistance to PSROs Dying-Simmons**

By EDWARD GROSSMAN

NEW YORK-If the network of Professional Standards Review Organizations. plans for which must be submitted in 203 districts nationwide by Jan. 1,

trouble, it won't ha

because of resist-

ance or non-coop-

eration on the part

of physiciana, ac-

Henry E. Simmons,

1976 runs into

Deputy Assistant Secretary of Health. It will be on account of hudgetary DR. SIMMONS

euts plaguing many government projects. Despite the cuts, the Office of Professlonal Standards Review of H.E.W. will soon announce a new funding cycle that will expand the program and allow 50 to 60 new districts to join the more than 90 in which compliance plans aubmitted by physicians have been spproved and awarded contracts, and 13 in which PSRO is actually in operation.

This guardedly optimistic forecast

for PSROs was made by Dr. Simmons during an laterview with Menical

Teinina. amang physicians, and no wonder," Dr. Simmons sold. "By and large they realize that PSRO is their best, and maybe last chance to have a haad in improv-

ing health care without compromising their professional standing and respon-

"The proof of this is that increasing numbers of districts are giving us their plans, and many state medical societies that had previously been opposed have

# **Survey Finds Little Change** In Clinician Use of Rauwolfia

By HARRIET PAGE

New York-Clinicians appear not to have made any substantial changes in their use of rauwolfia derivatives, such as reserpine, in the wake of conflicting studies concarning links hetween these drugs and espect, MEDICAL TRIBUNE found in telephone Interviews.

These studies have, in the past six months: claimed an association betwees rauwolfia derivatives and breast cancer, shown no association between the use of rauwolfin and cancer, and ine use or rauwonne and cancer, and left hanging the possibility of a connec-tion between hypertension and cancer.

Dr. Rita Kelly, a medical oncologia at Massachusetis General Hospital, summed up the situation as "muddy." She has not seen any relationship between rauwolfia compounds and cancer In her patients and, she said, "I have not stopped reservine in women who have had breast cancer and have been on the drug for a long time, and who are under good control with the reserpine, because hypertension is a bad disease, too."

She is inclined to view the retrospective atticles in general as "not terribly helpful," she said. "The correlation is





By MICHAEL HERRING

ing the uncertain future of choosing be- now be decided in two to four months, tween molpractice insurance premiums of \$18,000 to \$25,000 a year, or none at oll, are working with the state legis- of St. Vincent's Hospital here, also nutlature to enact measures that will hope- lined other festures of the bill: fully eliminote unfairness in malprac- . Lisbility of two years for adults, and tice litigation

A bill calling for the formation of dren. After this, the doctor is no longer pretrial screening panels-special teams responsible for the patient's well-being. of three doctors who will review mal- No more "ad dsmnum" or "breach practice suits and present their findings of warranty" suits. The former (loosely to a court of law-is before the state Senate, according to Dr. Paul F. Müller, co-chairmon (with Dr. Bill Cast) of the State Medicol Association committee supporting the bill's passage.

The panels would consist of one doctor chosen by the plaintiff, one by the defendant, and a third by the first two panelists, Dr. Müller told MEOICAL TRIBUNE. In cases of dispute over panelists, the court may appoint all three.

"The panelists are subject to subpoena as witnesses in the jury trial, and their decision is admissible as evidence In court by either party in the suit," he do that."

\$100,000 of any award is paid by the expects it to become law this week, Dr. physician's insurance, thus setting a Muller concluded, "ft's not law yeteap on insurer losses, Dr. Müller ex- and there's many a slip between the cup plained. A patient may win up to and the lip." \$400,000 more, he said, but this portion of any judgment will be paid from a special "catastrophic fund," with money provided by a 10 per cent surcharge on all malpractice inaurance policies in the state.

The bill passed by the House originally called for a full-time Patient's Compensation Board-two physiciens, two attorneys, and two lay people who would hear and decide all malpractice cases in the state. The membera were to on a local level is the key to the overbe nominated by state bar and medical associations and appointed by the Governor. This bill was to guarantee full payment to the patient of any award up to \$100,000, make attorney fees ladependent of plaintiff award, act a cap on insurance payments, and prevent subrogotion by the patient's health Insurer. Expert witnesses were built into this plan and an additional \$100,000 maximum award for catastrophic cases would be paid from a fund maintained by the local medical community, Dr. Müller told MEDICAL TRIBUNE.

## Elimination of Nuisance Cases

"The blg value of the panel is the elimination from the courts of nulsance cases." Dr. Müller said. As soon as the panel labels a case 'nuisance,' the plaintiff's attorney will give it up, knowing this will be introduced as evidence.

"In the past attorneys have submitted cases without merit because they know the insurance companies won'l fight them and will settle out of court for some minimal payment. This has driven up lisurance rates and slowed down. the whole legal procesa.

court under the new bill. It a case is all attacks of pancrealth are initiated meritorious, both attorneys now know in the alcoholic.

there's a limit to what they can win or lose in court, so I think they'll settle INOIANAPOLIS-Indiana physicians, fac- beforehand. Either way, a case moy rather than years," he said.

Dr. Müller, who is Medical Director

two years after the age of six for chiltranslated, "the prayer") is the "half-amillion-dollar suit that hits the headlines and makes the doctor look horrible," Dr. Müller exploined. Now the patient may suc only for damages, not a sum of money, and this will not receive much public notice, he said.

A "breach of warranty" suit occurs when a doctor has tried to asssure patient in distress by saying, "Don't worry, we'll take care of you." Then he is sued on the grounds that he guaranteed that the patient's disease could be cured, Dr. Müller said. "Now they can't in writing and no doctor would dare

While he believes that "there's no Under the bill, only the first opposition to the bill at this point," and

# **Egeberg Applauds Effort**

▶ Dr. Roger O. Egeberg, Special Assistant to H.E.W. Scoretary for health policy and assigned to the national lem of physicisa insurance, attended hearings for the fudiana bill.

"I was amazed at how far they've gotten in fudiana," he told MEOICAL TRIAUNA. "Their interest and sense of responsibility in taking hold of the issue all problem. It should be handled by individual states, unless there is a



**Coronary Prevention Project Visits Congress** 

Dr. Joha LaRoso, left, director of Coronary Prevention Project at George Washington University Medical Center, takes blood pressure of Rep. Lea I. Ryaa doring coronary risk fector testing of House and Senate members, sponsored by Rep. Wolter E. Fauntroy and Senotor Charles M. Mathlas.

sten in "

la summing up the causes of so msay recent suits against physicians, Dr. Egeberg listed the following points: 
• Legalitles. "Long-toil liability, abuse sue for that unless the doctor puts this Advonces In Medicine. Announcements of these have created "an unduly hopeful image of what doctors con do, Some think doctors can interfere with the laws of nature, fronicolly, the more advanced the specialty, the greater the danger that a patient will be disap-

B Specialization. Specialists may see a pstient only a few times in nn ntmosphere not necessarily conducive to good mpport and understonding. "The speelslist is the expert, but many have furgotten they are deoling with a person."

Change in public ntiltude. Partly from advances in medicine, partly from news of other malpractico suits, "many people have developed the attitude:

'Maybe I'm missing something.' " Physician offluence, "The physician's overage income in 1943 was \$3,000. Today people see doctors as pretty doma well off, which they are. This has

the federal government will have to a group. They are also a powerful

 Insurance, "Patients know doctor are insured into the millions."

of res ipsa loquitur, changes in legal trends generally, have increased insurance premiums and raised the cost of health care.

· Attorney fees. The number of suits, ns well os the average judgment, is going up 10 per cent o year. "Public expectation is constantly excited."

 Image of perfection. "Many doctors won't admit they made a little mistake or had an accident, especially in hospital settings. fu addition, the more sophistiented the techniques, the more oppurtunity for a slip-up that may turn into a cutustrophe."

Dr. Egeberg described federal plans to luck more closely at the five or six million unexpected incidents that occur anaually in hospitals. "The insurance reports don't tell us enough," he said. "We want to find out mnre about what actually caused these little accidents, whn was to blame, and what was done

# breakdown in getting insurance. Then created o lack of sympathy for them as about It." From Alcoholism to Pancreatitis Via Triglyceridemia?

By RALPH COSHAM

Tucson, Anz. - Increased serum triglycerides may play an important role in the pathogenesis of acute pancreatitis in some alcoholics, Dr. John L. Cameron told the annual meeting of the Society of University Surgeons

Dr. Cameron, of the Department of Surgery, Johas Hopkins Hospital, Baltimore, Md., said that although excesto cause episodes of acute pancreatitis, the mechanism is uakaown.

"The most widely accepted theory is that alcohol ingestion causes partial pancreatic duct obstruction and an increase in panareatic accretory activity." he said. However, this and other theories lack "strong clinical and experie whole legal process.

"It blink very few cases will go to acceptable as the intehnism by which.

The connection between alcohol ingestion and hypertriglyceridemia and between hyperlipidemia and pancreatitia are well known, but a causal relationship has not previously been shown, Dr. Cameron said.

To investigate a possible link, Dr. Cameron and his co-workers induced hypertriglyceridemia by dietary means in 12 alcoholics with prior episodes of , acute paacreatitis and hyperlipidemia.

Seven of the 12 developed abdomlalve consumption of alcohol is known nal pain similar to but not as aevere on the pain previously experienced with acute pancreatitia.

Dr. Cameron sald lipid feeding was stopped in three patients because of the abdominal pain. In the remaining four patients with abdominal pain, the lipid feeding was continued for seven to 10 days.

"The pain abated, however, in all denge four patients after 48 hours when the ogeney serum ingiverides fell back into, a hypert lower range despite continued lipid arg."

feeding." he said. "This eliminates the possibility that the lipid meal itself, in the absence of hypertriglyceridemia, was the cause of the abdominal pain."

In a prior study, Dr. Cameron said, it was found that 41 per cent of all alcoholics presenting with acute panersatitis had hypertriglyceridemia.

"Since many patients stop both alcohol and food ingestion while they are ill during the 24 to 74 hours prior to presentation at the hospital, the frequency of hypertriglyceridemia might be even higher if measured at the onset of the attack," he said.

"From our data, one certainly cannot conclude that all pancreatitis in alcoholic patients is initiated by hypertriglyceridemia.

"However," Dr. Cameron said, "the present study presents convincing evi-dence that in some alcoholics the pathogenesia of acute pancreatitis involves hypertriglyceridemia as an intermedi-

# **Pediatrician-Internist Team Plan Founders**

STANFORO, CALIF.-"A tremendous number of unforeseen problems" will force the termination next July-at least io its present form-of an unusual primary care residency program at the Stanford University School of Medicine.

These problems, explained Dr. Couot Gibson, who is chairman of the Department of Family, Community, and Preventive Medicine, have sent him back to the drawing board to design on alternative program for the one which, as presently set up, brings together residents in pediatrics and interal medicine to work in pairs to provide primary health care for a panel of families over a three-year period.

#### 4 Residents In Progrem

Pour residents have been involved in the program, which began last July and is centered in a nearby community health center, rather than the hospital's outpstient departments.

Dr. Gibson sees the problems, frustratiog though they have been, as "challenges which require response and

He identified and described some of the major problems which have led to termination of the present program:

Although the heads of the departmeats of pediatrics and internal medicine supported the collaborative project, no model for the kind of "diadie relationship" proposed existed among faculty members. It proved difficult to develop a working relationship among the residents which did not already exist omong faculty members to some

Primary care residents were also part of regular residency programs and were pulled and tugged away from primary care commitments."

## Problems at Hosith Center

Vacction schedules, for instance, were woven in with the schedules of other internal medicine and pedintries residents so that one or another of the primary care residents was on vocation four of the program's first six

Also, the chiefs of in-patient services through which the residents rotated have been reluctant to release the primary care residents for a half day to allow them to follow their panel of families, since "the resident on a sophisticated medical ward has become a crucial part of the functioning of the

And some of the rotations were up to 25 miles away from Stanford, creating sdditional time problems for the primary care residents with their extra

The community health ceater where the primary care training is based has had a number of organizational and governing problems, "which might be challenging and stimulating during a all to eight week rotation but don't provide the stable base needed for the training environment of a resident over a three year period."

The members of the community served by the center were not acoustomed to the family-centered approach o primary bealth care. Family meinbers saw no need to come when they

were not sick and were reluctant or steady drop in the number of profesfound it difficult to bring in an entire family, sick or well.

Also, the most convenient time for on entire family to come was after 5 p.m. when the regular staff of the center was gone and no assistance was available from technicions, social workers, dentists, and others.

A resolution of these problems will produce a new approach to primary care training, Dr. Gibson predicted, He plons to recommend the development of a family practice program, based in a community institution so that the proeram can be "person, family, and community centered."

The present primary care residency brought together two of the elements Dr. Gibson believes are concerned with primary care, as a pediatrics resident worked with an internal medicine resident in a community health center.

But while the program involved the traditional medical school departments and the community medicine/consumer movement, it did not involve the family proctice movement, the third of the eparate and distinct, but interacting" groups involved in primory care, he

#### **Pacullarities**' in Training

Although many internists and pediatricians consider themselves primnry care specialists, Dr. Gibson maintnined that some "peculiarities" in their training make them ill-equipped to provide primury care. He defined primary care as a continuous, brond relationship between patient and physician, ant eunfined to a particular disease but energy speli elements as early diagnosis, disense prevention, the promntinn of health, assistance in convalescence and provision of comfort to the dying.
"The taching hospital, which was

the inculintar for the modern science of medicine, has produed a group of highly educated, hospital-oriented professionals whose specific focus on the lesion has given rise tu more and more subspecialties and has pruduced a

sionals interested in primary care," he

The training of internists, for instance, is hospital-based and focused on the diseases, not the person, he explained. And, although half of the problems encountered in primary care sre emotional, internists have little training is dealing with emotional problems, and they have none in the growth and development of children and adolescents, he said.

Pediatricians do hove some training in dealing with emotional problems but they don't deal with these in a faimly setting for they give little attention to the father and none to the elderly, Dr. Gibsoo continued.

Since antibiotics oad immunization have changed the type of care provided by pediatricians, "the monotonous aspeets of office practice and low financial rewards are making pediatrics an abandaned specialty," he added.



A plastic ring containing a small ssure transducer that can be worn under the eyelld to monitor eyeball pressure has been developed at the University of Utah. The new system was developed to aid in the research and treatment of glancoma.

# **Externally Chargeable Pacer Going Smoothly After 2 Years**

BALTIMORE-The first patient in whom a transcutaneously rechargeable heart acemaker developed at Johns Hopkins University was implanted has just completed her second year of successful use without complications or the necessity of a reimplant, according to a group of investigators here.

The pacemaker, which is said to be designed to last the patient's lifetime end is smaller and lighter than conventional units, has so far been implanted in over 1,200 patients, said the team, associated with the Johns Hopkins Applied Physics Laboratory.

date: one suffered a transistor failure may recharge while reading, watching and one suffered a seal fallure, both without patient injury.

Dr. Kenneth B, Lewis, Assistant Professor of Medicine, Johns Hopkins School of Medicine, who was medical

director for the pacer's development, said that he now implants it in more than 90 per cent of his patients who require pacemakers, "all of whom are essfully recharging at home."

#### 'A Very Simple Process'

According to Robert E. Pischell. technical director of the pacemaker project at the Laboratory, recharging the device is "a very simple process which has been accompliahed by patients as old as 93 and children as young as three." Recharging, he ex-plained, takes about one hour each week or four hours each month. No Only two of the units have failed to sensation is fell by the patient, who television; or even aleeping, he said.
Pacemaker Systems, Inc. of Sylmar,

California, licensed by Johns Hopkins to manufacture the unit, now provides a ten-year free replacement warranty.

CLINICAL NEWS NOTE: "Eventually, I expect there will be a uniform system of reviewing all hospital patients, whether their bills are being picked up by the government or third party private insurers, and irrespective of when or whether we get national health insurance. I don't rule out the possibility that one day outpatients will be covered, too." (Dr. Henry E. Simmons, see page 15.)

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wednesday, April 23, 1975

IN CONSULTATION

HAVE BECOME intrigued recently by two phases of allergy that are receiving

much attention these days-the possibility that allergy to food is far more

prevalent than hitherto imagined, and the role of emotional stress in allergy dis-

eases. In a way, the two now and then touch upon the same plane since allergy

to food can produce symptoms so dif-

fuse and so nebulous as to be easily

dismissed as being neurotic in origin,

And the emotional stress of a patient

so summarily dismissed who knows he

does not feel well, who knows that

something is wrong, can be imagined.

Not only this, but allergy to food can

cause some strange central nervous

system symptoms such as confusion,

irritability, depression, extreme fatigue,

poor coordination and the like; all of

the attending physician.

which may create a bit of skepticism in

It is very important for the physician to know the botanical relationship of

foods (eashew nuts, pistachio nuts and

mangoes are all in one family) and also

where a person may come in contact

with a food (pennut oil is sometimes

used in cooking doughuuts) und give

Considering that the ins and outs

of food allergy are difficult for the busy

non-allergist MD to remember and that

the literature is about as diffuse us the

a distinct possibility when differential

diagnosis has ruled out more serious

cootingencies. Especially it must be

coasidered when there is a family his-

tory of allergy and when the patient

suffers or has suffered other allergies,

such as hay fever or colic, as an infant.

Physicians bewerel Be not quick to de-

cide that yours is a neurotic or hypo-

chondriacal patient. He may simply be

What constitutes a basic eliminetion

diet and how does one vary it for an

individual patients-growing children,

sedentary office workers, hard laboring

men, etc. Basically, potent allergenic

foods such as milk, eggs, wheat, choco-

allergic to his daily bread!

individual patient?

this knowledge to his patients.

What is new and important in food allergy?

# Hospital Computer Converted From a 'Redundant Secretary'

By RALPH COSHAM

Tucson, Aarz.-Physicians and computer scientists at the San Diego VA Hospital have devised a system that has turned their computer from a "redundant secretary" into a useful tool that has helped improve patient care in the hospital's surgical intensive care unit.

Dr. A. G. Greenburg of the Department of Surgery, University of California, San Diego, said the new system was designed after an evaluation study show the computer was underutilized "primarily because it was not useful."

"The output of the original monitoring system was ignored by the nurses • whether or not the variable is deviant; because they distrusted the data or had to work too hard to obtoin that which the deviation;

HERE

Wherever It hurts, Empirin

provides the symptomatic

in flu and essociated respiretory

prescribing convenience: up to 5 refills in 6 months,

discretion (unless

Infection, Empirin Compound

with Codeline provides an

ellef of pein and bodily

restricted by state lew); b

Empirin Compound with

Codelne No. 3, codelne phosphete\* 32.4 mg. (gr. ½); No. 4, codelne phosphete\*

64.8 mg. (gr. 1) •Werning-may

also contains; aspirin gr. 31/2,

phenacetin gr. 2½, ceffeine

be hebit-forming. Each tab

HERE

physicians because it represented infor-mation they did not need," he said,

Dr. Greenburg said the new system was designed to provide instruction and advice for all personnel, on all aspects of patient care, while attempting to maximize use of the computer.

"We have developed or implemented programs that are both instructive and advisory. Our objective has been to provide easily obtainable, explicit informstion about specific problems,"

With the new system, given a physiologic subsystem and a particular variable, personnel can find out:

obtain a list of probable causes for

they alresdy knew, and rejected by the • obtain an explanation of the pathophysiology of particular deviants as well as instruction on how to identify a most probable cause; and

 how to correct specific devinnts. The new system resulted in an imme-

dinte and sustained increase in computer utilization, Dr. Greenburg said. "As a result, we have a hetter educated staff who communicate more ef-

fectively, deal with more sophisticated Information, and make better decisions with resultant improved patient care." Dr. Greenburg's co-workers in the

development of the computer system were a computer scientist, D. K. Mc-Clure; an information systems analyst, R. Fink; J. A. Stubbs, R.N.; and Dr.

# EDITORIAL CAPSULES

. . brief summaries of editorials or comments in current medical and scientific iournale

# Provide and Conquer

". . . uur clouded and crazed crystal ball has come up with a prediction of a future move by H.E.W. (as the generic drug thing becomes an established way of life).

"Aux laboratoire, mes amis!

"With hardly a change in script, the ugency can mount the attack. What is the tirst cry that greets us cach day? Health care costs are outrageously high and elimbing. Clearly something must be done and the doing can best be accomplished in relation to the ease with which a given area of cost can be identified. To the bureaucratic mind, laboratory service should be a natural. Here is a significant segment of medical care cost for which a monetary figure can be derived from hospital bills, insurance reports, published fee schedules, and the guesses, educated and otherwise, that go into the development of such figures. This can be brought to the public attention with appropriate implications that there must be something unholy about anything that costs that

"A standard feature of the hureaucrotic approach, gleefully picked up by the Sunday supplements, is the exposure of the unconscionably excessive or inappropriate use of the thing it wishes to control. Someone will "expose" the fact that many inboratory procedures enjoy the sanctity of being called "routine," which often means, in fact, that its volue is dubious but which will be interpreted as menning that no distlnct hencfit to n particular patient cao be demonstrated and it was therefore

"...tho laboratory service...is, to the patient, a relatively detached and impersonal activity as compared with his intimato relationship with the physiciao. We admit to the conviction that It is only the force of this relationship which has spared the elinician from a more complete invasion of his office than already exists. So far, the public has, perhaps unconsciously, resisted this invasion because the physician's private office-or the hospital bed-has been the point of personal contact with the physician, the focus of the private and personal character of the process the place where he is an individual rather than a unit of contribution....

"In short, the method is relatively simple. Establish control over those services that are peripheral or those with a distinctive social appeal. . . Don't work directly on old Doc Yak because the public still has kindly feelings for him, but pick off his ancillary services one at a time by agency resolution-e tidier and more effective approach in the long run than legislative confrontation. But the physician hasor abould have—the uneasy feeling that when enough of his satellites have been brought under federal control so, to all intents and purposes, will he be. (Editorial Comment, David E. Gray, M.D., J. Kans. M.S., 76:42, Fab., 1975) moved, plus foods we can suspect from the patient's history, (or the patient does, since he often knows what doesn't agree) plus foods that appear positive in skin and chullenge tests, althuugh the former remain doubtful, Most importuntly, vitamin and mineral deficiencies in such a diet must be made up by prescription lest we sink

The Consultant

Da. CLAUDE A. FRAZIER, M.D., F.A.C.A.

of Asheville, N.C.

the ship trying to save it.

A physician called me about a patient who developed articaria after enting mangnes. He later ate eashew mits, followed by a severe reaction, and still later incurred a more severe reaction hy eating pistachio nuts. What about an elimination diet here? The only foods that needed to be climinated here were mangoes, cushew nuts and pistachio nuts, 'They are the only foods in this particular botanical family-the Cashew family. If a person is allergic to one food in a hotanical family he should eliminate all foods in that purticular fumily.

I have seen several patients severely symptoms, I took pity on my fellow physicians, not to mention my patients, and stuck everything I could find on allergic to peanuts. These patients had been seen by physicians-one by an allergist-and told to climinate nuts. the subject in my office hetween two covers, and called it Coping with Food Peanuts belong to the legime family. These people were continuing to have symptoms as they continued to cut foods in this family. Foods in the leg-When should food allergy be considered as possibly etlologic in regard to ume family should have been climian adult patient's symptomatology? nated, some of which are acacin, urabic, kidney bean, green bean, lims Since allerey to food ean affect any body system and mimic a variety of benn, navy been, soy bean, wax bean, symptoms ranging from appendicitis to licorice, black-eyed pea, chick pea, green pea, split pea and tamarind. schlzophrenia, it should be considered

I always hand a copy of my book to the patient and tell him to read all about the food to which he is allergic, where it is found and its relationship to other foods.

#### What is the current status of skin testing to determine food allergy?

Skin testing for food allergy is nowhere near as reliable as it is for inhalants, but I use such procedures on occasion, depending upon the patient and his history. Sometimes correlating skin test results with the history can provide helpful hints of where to go.

#### Elimination diets must be tailored to What is the current stetus of desensitization as treatment for food allergy?

I find desensitization results as treatment for food allergy unconvincing and, I do not use this procedure except for inhalants and insect stings.

# Euble Blake, at 92, Gives 'Thank You' Concert



222 planist Euhle Blake, 92, was recently admitted to Long Island College ital, Brooklyn, for a series of tests. After heing pronounced in good health by his physician, Dr. George Liberman, he offered to give a concert for the ospital's staff and almbulatory patients before going home. Steinway Plano Company tuned the plano in the nurses' residence and the concert was on.

# What is the role of food additives as

I agree with Dr. Stephen Lockey that intentional snd unintentional (pestieide residues, drug traces, etc.) additives pose an incressing health thrent to the sllergic. Allergists have already documented cases of patients reacting to such things as butylated hydroxynnisole (BHA) and butylated hydroxytnluene (BHT), sodium nitrite, the salievlates and their derivatives, bleoching chemicals and chlorine, but there a great deal we do not yet know about these thnusnnds of chemicals added to our daily fare, including their synergistic effects and whether or not some of them are cupable of sensitizing a good part of the populatioo. Let us admit that we are ignorant and act

#### **Next In Consultation**

DR. C. J. MARTEN, Director, Institute of Respiratory Physiology, Virginia Moson Research Center, Scattle, Wash...will discuss what's new and important in the diagnosis of diffuse obstructive pulnionary syndromes and the mechanisms in volved in causing these syndromes. He will olso discuss the relationship between chronic bronchitis, emphysema and tuberculosis as well as the elinical significance of differential aeration and the emptying of different lung compartments. Dr. Martin will also discuss measures that moy aid in preventing or arresting the progress of emphysema and pulmnnnry fnilure.

# **Double Form of Gastrin Said** To Flaw Radioimmunoassay

Mexico City-The usual radioim-

The statement was made by Dr. M. I. Grossman, Professor of Medicine, University of Californio at Los Angeles, in commenting on his work and that of Dr. R. A. Gregory, Professor of Physiology at the University of Liverpool.

Dr. Gregory reported that he determined the true sequence of amino acids in big gastrin in its predominant form of gastrin in blood, and found it has a chain of 34 emino acida, compared with 17 in little gaatrin, which predeminates in antral tissue. He explained the predominance of big gastrin in blood as due principally to its slower

Dr. Grossman sald that be was able to demonstrate the same relationship between the two forms of gastria in the blood and in the tumor tissae of patients with such disorders as ZollingerIn commenting on these findings, Dr.

Grossman said: "Actually, n general principle has been discovered. It is that peptide hormones occur in blood and tissue in more than one molecular form and the larger form can be transformed into the smaller form.

"Because of this heterogeneity, and because different forms have different activity, the measurement of the total amount of homione is not necessarily a valid index of the blological activity of that hormone."

Dr. Grossman also observed that Dr. Gregory's finding has led to a new concept with respect to the relative potency

of the two forms of gastrin: Equimolar amounts of big and little gastrin will produce about the same gastrie response. Therefore, based on. xogenous doses of hormone, the two forms are about equally potent on a molar basis. However, since the larger form produces a much higher blood level than the smaller one, the "endogenous potency"—that is, the blood level regulared to produce a given response is much greater for little gastrin.

# WHEN FLU HITS AND



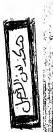
# **COMPOUND**



#3. codeine phosphate\* (32.4 mg.) gr. 1/2 #4, codeline phosphate\* (64.8 mg.) gr. 1

munoassay technique of measuring peptide hormones in blood may not be providing an accurate index of their biological scrivity, the Fifth World Congress of Gastroenterology was told.

rate of removal.



**ለተለተለ**ታ

# Exceptionally well absorbed oral broad spectrum antibiotic may be taken with meals

# Larocin (amoxicillin) achieves high blood and urine levels

# Low incidence of diarrhea to date in clinical studies

NUTLEY, N.J.—Roche Labora-tories recently introduced an oral broad epectrum antibiotic: Larocin (amoxicillin). Larocin reprasents a significant contribu-tion to antibacterial chemotherapy, one which will perform effectively in tha treatment of a wide range of infections due to susceptible organiams (see chart at right).

## Absorption called the key

The key pharmacologic charac-teristic of Larocin (amoxicillin) is its rapid and efficient absorption from the gastrointestical tract. Not only is it etable in stomach acid, but the presence of food has no significant effect on the antibiotic's absorption. Thus Larocin may be taken by patients on a convenient t.i.d. schedule without regard to meals. The reconstituted oral suspension and pediatric dropa may be added to liquide such as formula, milk, fruit juice or aoft drinks for assy administration to small children.

Bacause of its efficient absorp-tion characteristics, high blood and urine levels of Larooin (smoxicillin) are rapidly achieved. Peak earum levele avarage 4.2 mcg/ml two hours after a singla 250-mg or al dose and 7.5 mcg/ml ona hour after a single 500-mg oral dose — both levels approxi-mately twice as high as those ob-tained with equal doses of ampi-

On a multiple-dose regimen when given every eight hours for 3 days, the lowest mean serum levels of Larocin approximated 1.0 mcg/ml after 250 mg and 1.25 mcg/ml after 500 mg. \$ Although the therapeutic range of blood levele for the penicillins is not well established, these results demonstrate that blood levels may be expected to remain above the MIC's for all of the noauri nary pathogens eusceptible to Larceln when it is administered at clinically recommended doses

(see chart below).

Most of Larocla is excreted unchanged in the urine. Average urinary excretion within 6 to 8 hours after oral administration ranges from 40 to 79% for the 250-mg dose and 59 to 79% for the 500-mg dose.1-5

the bou-mg dose, 1-8
L Crydon EAP, Sutherland R: Antimicro's Agente Chemother - 1870, pp.
47-489, 1971. 2-8 ms IR, Winshell EB:
Antistrova Agente Chemother - 1870,
1981. 1981. 1981. 1981. 1981. 1981.
Antistrova Agente Chemother - 1870,
1981. 1981. 1981. 1981. 1981. 1981.
Antistrova Agente Chemother - 1881.
1982. 1982. 5. Bodys GP, Nance 1:
Antimicrob Agenta Chemother 1:888388, 1872.

## Hypersensitivity reactions can occur

As with other penicillins, it is anto Larcela (amoxicillin) will be largely limited to sensitivity phenomena. Whila anaphylaxis is rare in patients treated with oral



GRAM-NEGATIVE

Escherichia coli Protena mirabilia

Neissoria gonorrhooa

<u>In vitro</u> bactericidal activity Note: Bosause Laroein (amozicillin)
does not resist destruction by ponteillina no it resist destruction by ponteillina no it mot effective against pontoillinas-producing backeria such asresistant staphylococoi. All strains of
Pesudamonas and most strains of Klabstella and Enterobacter are resistant.

penicillina, the possibility must neverthelese ba kept in mind. Larcoln is contraindicated in patients with a history of penicillin hypersensitivity, SERIOIS AN-APHYLACTOID REACTIONS EQUIRE IMMEDIATE EMERGENCY. TREATMENT. (See Waraings section of com-pleta product information, a eum-mary of which appears at right.)

## Efficacy demonstrated in many infections

Amoxicillin has bean adminis-Amoxicinin has bean adminis-tered successfully to patients with a wide range of commonly seen infections due to susceptible or-genisms.\* Over-all clinical evaluation of amoxicillin therapy was

astimate. Over-tail clinical every was considered a "souccess" or "improvement" in 1287 of 1856 evaluable cases (98.3%), it is the cases (98.3%), it is the cases (98.3%), it is the cases (98.3%) and is the case (98.3%) and is the case (98.3%) and is the case of the case majority of patients were treated from seven to 10 days. A break-down by type of infection follows:

Otitls Media: The pathogens must commonly isolated were must commonly isolated were self-stated with the self-state of the must be self-stated with the dispussion of 100 cases with this dispussion, 127 (198%) were rated es a "succest" or "improvement" after treatment with Larocin (amoxicillia).

Streptococcal Sore Throat: A Streptococcal Sore Throat: A success rate of 86% (174 of 202 cases) was observed with Larech against the responsible pathogen, beta-hemolytic streptococci. The great majority of the 202 patients in this group were children who received the oral suspension.

Other Upper Respiratory Infections: Beta-hemolytic streptotions: beta-nemotytic arrepro-coccit wera the offending organ-lema for most of the infections in this group, which were diag-nosed primarily as pharyugitis, with some cases of tonsilitis and a few cases of sinusitis. A success rate of 82% (56 of 68 cases) was achieved with Larocin.

Lower Reapiratory Infectioes: Treatment with Larocin resulted in "success" or "improvement" in all of tha 52 cases in which Diplococous pnsumoniae was cul-turad. Staphylococcus aureus was also culturad in 26 of the 98 cases; Larocin showed "success" or "improvement" in 96% (25 of 25 cases). The most common clinical conditions were bronchitis and

Urinary Tract Infectiona: Cystitis, pyalonaphritis and asymp-tomatic bacteriuria were the most frequent clinical dlagnoses in this group. Of the 404 cases evaluated, Escherichia coli was cultured in 806 cases and treatment with Larocin resulted in "success" or "Improvement" in 284 caeos (03%), Proteus mirab-ilis was cultured in 70 patients, with Larocin offective in 67

Skin and Soft Tiseue lafections: Staphylococcus aureus was cultured in 108 cases, with "euccass" or "improvement" in 104 (98%); while beta-hemolytic streptococci wera culturad in 99 cases, with "euccess" in 97 (98%). Impetigo and abacess were the most frequent dlagnoses.

Gonorrhea: Adminiatered as eingla 8-Gm oral dose, Larocin showed a succesa rate of 97% in both males (85 of 88 cssee) and females (114 of 118 cases).

nemaies (114 of 118 cases).

\*Dela en file, Hofmann-La Roche Ma-,
Nutley, Now Jersey 07110.

\*Success" or "improvement" one determinad by a combination of olisted
and bacteriological orticria. In infertions due to bath-emotyte streptoscet
and N. conor-house, only excesses
were included.

# Low incidence of side effects reported to date

During the clinical investigations with amoxicillin, all cases treated wera evaluated for side effects. wera svaluated for side effects.
No side affects or laboratory abnormalities which would be concidered unusual for a penicillin derivative were raported by any

of the investigators.
In 2658 total courses of therapy with amoxicillin, therapy was discontinued in only 52 patients

Drug-Related Side Effects Associated with Amexicillin

Bosed upon 2883 courses of therapy: 1811 with the capsulos and 847 with the oral supposion.

	CAPSULES		PROPERTION	
NOE EFFECT	#	%	#	%
	24	1.3	18	2.1
Distrites	24	1.3	17	2.0
Resh		0.3	1	0.1
Nausea	Ä	0.4	2	0.2
Urticaris	ž	0.3		
Monilia ela	76743222221	0.2		
Neuses/Vomiting	ã	0.1		
Diarrhea/ Nauses	5	0.1	4	0.4
Vomiting	5	0.1		
Olzzinesa	ā	0.1		
Colitie	5	ŏ.i		
Naussa/Headsche	5	ŏ.i	1	0.1
Resh/ Urticaris	î	0.05		
Ecophageal Opeem		0.05	1	0.1
Stomechache	•	0.08	-	
Saiching	•	0.05		
Orowsiness	1	0.05		
Saiching/ Numbnasa/ Tingling/ Itching	•	0.05		
Fever/ Itching	•	0.05		
Officult Greathing	•	0.08		
Mucus in Pharynx	•	0.05		
Olerrines/Urticeria		0.08	4	0.4
Nerrhea/Vomiting		0.05	-	• • • • • • • • • • • • • • • • • • • •
Olzziness/Hesdsche		0.08		
Conjunctivel Ecchymosia		0.05		
B.J. Sleeding	:	0.08		
Abdominal Cramps	1	0.08		0.1
Olerrhea/Resh		0.08	•	ŏ.i
Resh/ Olarrhes/ Vomiting			†	0.1
Sore Tongue			†	0.1
Resh/Vomitting				
TOTAL	102	8.e	52	8.1

(1.9%) because of drug-related sids effects. Laboratory abnor-malities possibly related to amoxicillin occurred infre-

quasity.

In these atudies, thera was a low incidence of diarrhea reported with amoxicillin capsules—1.7% or 30 of 1811 patients. Establishment of the control of the contr 1.7% or 30 of 1811 patients. He-pecially noteworthy was the low iacidence of diarrhea reported with amoxicillin or al suspension oaly 2.8% or 24 of 847 patients, significantly less (p<0.05) than the incidence of diarrhea with ampicillin oral suspeasioa (5.3%

ampicillin oral suspension (c.o.w or 15 of 282 patients). In breaking down the over-all incidence of diarr hea by age groups, it was found that in tha group from 0 to 1 (newborn and Lyear-old infants), 13 of 108 pa-

suspension developed diarrhea, for an incidence of 12%. This represents over one-half the total number of diarrhea cases seen in the 847 patients treated with amoxicillin oral suspension. Throughout each of the re-maining aga categories, starling from age 2 to 10 and in the gen-

eral grouping from age 11 to 20, the incidence of diarrhea in pa-tients treated with amoxicillin tients treated with manges from 2% down to 0 in the older groups. There were few cases of diarrhea boyond the age of elx.

The incidence of diarrhea with

Laroclu (amoxicilla) caa therefore be expected to be considerably higher is the newbors and infant ago groups than in older children, which is true of all anti-

# Usual Adult and Pediatric Dosages

NDICATION	ISOLATEO	DOSAGE	PEDIATRIC OOSAGE*	
nfections of he ser, nose, brost	Streptococci, pneumococci, nonpenicillin- ace-producing etephylococci, H. influenzee	250 mg <u>t.l.d.</u>	Orel Suspension: 20 mg/kg/day in divided doese 14.6.  Orel Suspension: 40 mg/kg/day in divided doese 14.6.  Orel Suspension: 40 mg/kg/day in divided doese 14.6.  Ores Suspension: 20 mg/kg/day in divided doese 14.6.  Ores Suspension: 20 mg/kg/day in divided doese 14.6.  Orel Suspension: 20 mg/kg/day in divided doese 14.6.	
infections of the lower respiratory trect	Streptococci, pneumococci, nonpenicillin- ess-producing stephylococci, H. influenzse	500 mg <u>t.l.d.</u>		
Infections of the genito- urinary trect	E. coll, Proteus mirebilis, Strep. feecelis	250 mg <u>t.l.d.</u>		
Infections of the skin and soft tissues	Streptococel, euscaptible staphylococci end E. coll	250 mg <u>t.l.d.</u>		
Severe infec- tions, or injections caused by less susceptible organisms		500 mg <u>t.l.d.</u>	Oral Suspension: 40 mg/kg/ dey in divided doses <u>t.l.d.</u>	
Gonorrhea, scute uncom- plicated anogenital and urethral infac- tions (males and femeles)	N. gonorrhoess	3 grems single orel dosa		

Before prescribing, please consult complete product Information. ummsry of which follows:

Indicationa: Infectione due to suscentible strains of the following gram-aegstive organisms: H. influenzas, E. coli, P. mirabilis and N. gonorrhoeas; and grampositive organisms: streptococci fincluding Streptococcus faecalis), D. preumoniae and nonpenicillinase-producing staphylococci. Therspy may be instituted prior to obtaining results from bac-teriological and suscaptibility studies to determina causative organisms and suscaptibility to smoxicillin. Contraindications: In individ-

uals with history of allergic reac-

CONTRIBUTIONS OF PERVICIL AND OCCUPANTION TO PERVICUE AND OCCUPANT SOLUTIONS OF THE STATE OF THE

ING INTURATION, AS INDICATED.

Image in Pragement: Sa fetsy in

pregnancy not astablished.

Precautions: As with any po
teat drug, assess renal, hepatic

and hematopoietic function pariodically during prolonged thar
apy. Keep in mind possibility of

superinfections with mycotic or

packerial uschozens: if they ocbacterial psthogene; if they occur, discontinue drug and/or inetituto appropriste therapy.

Adverse Reactions: As with

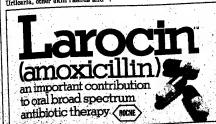
other penicillins, untoward reac-tions will likely be essentially lim-Ited to sensitivity phanomena and more likely occur in individuals more likely occur in individuals previously demonstrating peni-cilla hypersensitivity and those with history of ailsrgy, aathma, hay fever or urticaria. Adverse resctiona reported as associated with use of panicillins: Gastro-intastinal: Nausea, vomiting, disirhes, Hyperasnsitivity Reactions: Erythematous maculopapular rashes, urticarla. NOTE: Urticarla, other ekin rashes and

serum sickness-like reactions may be coatrolled with sntihists-mines and, if necessary, systemic corticosteroids. Discontinue amoxicillin unless condition is believed to be life-threstening and amenabla only to amoxicillin therapy. Liver: Moderate rise in SGOT noted, but significance un-known. Hemic and Lymphatic Systems: Anamia, thrombocytopania, thrombocytopenic pur-pura, eosinophilia, leukopenia, agranulocytosis. All are usually reversible on discontinuation of therapy and believed to be hyper-sensitivity phanomena.

Dosage: Ear, nose, throat, gsn-itourinary tract, skin and soft tissue infections—Adults: 250 mg every 8 hours. Children: 20 mg/ kg/day in divided doses every 8 houre; under 6 kg, 0.5 ml of Pediatric Drops svery 8 houre; 6-8 kg, 1 ml of Pedlatric Drops every 8 hours. Lower respiratory tract or those caused by lass susceptible organisms - Adulta: 500 mg every 8 hours, Children: 40 mg/ kg/day in divided doses every a hours; under 6 kg, 1 ml of Pedihours; under 6 kg, 1 m of Fedi-atric Drops avery 8 hours; 6-8 kg, 2 m of Pediatric Drops every 8 hours. Genorrhea (acute un-complicated aaogenital and urethral infections)-Males and females: 8 grams as a single oral dose. NOTE: Children weighing more than 8 kg should receive appropriate dosa of oral suepen-sion 125 mg or 250 mg/5 ml. Children weighiag 20 kg or more ahould ba dosed according to adult recommendations.

Note: In gonorrhea with suspected lesion of apphilis, perform dark-field examinations before amoxicillin therapy and monthly eerological tests for at least four months. In chronic urinary tract infections, frequeat bacteriological and clinical appraisals are necessary. Smaller than recommended doses should not be used. In etubborn infections, soveral waske' therapy may be required. Except for gonorrhea, continue traatment for a minimum of 48-72 hours after patient is asymptomatic or bacterial eradication is evidenced. Treat hemolytic strep-tococcal infections for at least 10 days to prevant acute rheumstic

fever or glomorulonephritis.
Supplied: Amoxicillia as the trihydrate: Capsules, 250 mg and 500 mg; oral suspension, 125 mg/ 5 mi and 250 mg/5 ml; pediatric drops, 50 mg/ml.



By Jinin F. HENAIIAN

Los Angeles-Most physicians are either poorly equipped or reluctant to diagnose and treat alcoholism when they encounter it in patients or in their

That indictment surfaced in various forms at a symposium-held during the California Medical Association's 14th annual session in Los Angeles-devoted to "Alcoholism and Other Drug Dependencies: 'The Physician's Responsi-

"Even though physicians may have a common knowledge of the things in their patient's history that may be con- Francisco General Hospital. nected with alcoholism, they hesitate to make the diagnosis and usually wait until the pntient goes into the with-drawal syndrome before they do," said Dr. Jude Flayes, medical director of the dingnosed as alcoholies, the number re-Tulare County Substance Abuse Program in California

#### Strong Clues Noted

Noting that fatty liver, hepatitis, chronic gastritis and a high blood alcohol level, along with a history of marital and job disorders, accidents and other behavioral upsets are strong clues to alcoholism. Dr. Haves ob served that "the physicinn feels that he tives to detoxify the patient as soon as just doesn't have the time or counseling skills to deal with an alcoholie patient.

"It is very important that the physician maintains a close and understanding relationship with the alcoholic patient," he urged.

"If it will accomplish nothing else, it will give the pnticnt the realization that he still belongs to the community and that he has not been abandoned to some quasi-governmental agency for

A physician's reluctance to diagnose and work with the alcoholic patient moy also be due to the fact that after he has had some success, the patient frequently goes bock to drinking as heavily as ever before

"The physicion then feels that he is somehow responsible for the fallure and overlooks the fact that recurrence is the noture of the disease, just as it is in chronic rheumatic disease, coronury artery disease, and onneer," Dr. Hayes

#### Blood Level Data Persuasive

Although it is usually difficult to get the patient to acknowledge that he is an alcoholic, Dr. Hayes believes that the initial step could be taken by confronting the patient with a blood level in the range of 150 mg. per 100 ml. It should be made clear to the patient, he auggested, that even though he does not appear intoxicated at the moment, the blood level is a atrong indication that he is an alcoholic and needs help,

"Now that the treatment of alcoholism is being funded by insurance earriers, and a growing number of employers and government agencies now view alcohol as a diseaso, and no merely a bad habit, the physician is in a better position than over before to carry out his responsibility to the alco-

Physician, told a lunchcon meeting of the C.M.A. that young doctors are still not receiving enough education in the management of alcoholism.

He suggested that the fact that only 20 per cent of all those now enrolled in Alcoholics Anonymous are there through physician referral, indicates that "we still have a long way to go in

While diagnosis of alcoholism usually associated with some other illness may appear in a patient's record, few are being trented for it, according to Dr. Charles Becker, Head of the Division of Clinical Pharmacology at San

He cited two surveys taken at San Francisco General over the last several months which indicate that although a group of patients with pancreatitis were ferred for treatment of alcoholism was

"In addition," he said, "although the pancreatitis was treated correctly, by failing to consider the alcoholism problem, the physician did nothing to prevent its recurrence. This is clearly a severe deficit in health care delivery."

Dr. Becker said that his technique for treating alcoholics is to use sedasymptoms of alcoholism ore recognizable. Then while the patient is coming back to normal, he administers Antabuse, to keep him away from alcohol during the recovery period.

"The odvantage of this type of treatment to that it gives the physicion time to build up the proper patient-physicion relationship. Then when you have the patient free of olcohol, he should be in o state of mind where you con employ Alcoholles Anonymous, group theropy, Individual theropy or just plain humon

#### Special Training Not Needed

"I don't agree that you have to be specially trained to give the proper ol-coholic counseling. When a physician soys he doesn't have time for the alcoholic, he really means that he doesn't have time to deal with the human aspects of treatment, and when medical practice gets that way, the physicinn is not rendering overall care to the

. If the physician has trouble confronting his alcoholic patients, he may even have more difficulty confronting and admitting bis own drinking problems, sald Dr. Mox A. Schnelder, medical director of the Beverly Manor Hospltal in Orange, Calif.

For example, he said, it could reduce his objectivity in diagnosing alcoholism in his patients.

"Certainly if a man before me for whom I'm taking a history is drinking a pint a day, and I'm drinking a quart a day, I am not going to be very interested in his alcohol problem. Obviously he couldn't have one, because if

he bas one, I have one."
"As it is with the general putient, slapee is the worst treatment for the alcoholic, physician, P. Dr. Schnelder told the C.M.A. symposium, adding that in the case of alcoholic physicians, holic patient," Dr. Hayes sald.
Dr. William Lukash, White House shoring a colleggue's disease can pose



Now It's 'Cricket' for the Blind to Bicycle



Device called "Crieket," from the sound it emits, invented by n Western Electric engineer, permits a blind person to enjoy blke rhiling on sole roods or trails, He rides his blke behind onother equipped with a "Cricket" (extending from behind the leader's sent). The beep's pitch can be oldered so that the bilind rider can follow safely from os for as 200 feet or us close as a few feet.

serious problems for himself, his patients, his family and the entire pro-

As an ald to the alcoholic physician Dr. Schneider recommended that every As Possible Carcinogen liospital should set up a committee to whom anyone on the staff could submit report indicating that n physicinn's drinking was getting in the way of his practice. And when the committee nets, its prime motivation should be therapeutic and not disciplinery, he said.

Dr. Schneider niso suggested that local medical societies might follow the "Physicinn's Hot Line" approach that the Orange County Medical Society has been operating successfully for the last two years. The Hot Line number is known only to physicions ond their families and all calls are completely

"In this way we can refer the alcoholic physician to other physiciana who are ready and willing to listen to him and to assist him. At the same time, the procesa of 'crisis interruption' is immediately set in motion."

#### Hypnotism Curb Asked Medical Tribility Wo

Tel Aviv-The Israel Medical Assoclation has again come out atrongly in favor of ollowing only licensed phyal-cians to practice hypnotism, following a case in which a stage hypnotist put a a case in which a stage hypnorist par a 16-year-old girl lato a trance and was unable to wake her, The girl was roused nearly a week later by the head of the Israel Association for Medical

# Marketing of Isoflurane

ANN ARAOR, MICH.-A University of Michigan onesthesiologist has blocked release of a new anesthetic gas found to cause tumors in laboratory mice, the university announced.

Dr. Thomas H. Corhett. Assistan Professor of Anesthesiology, reported recently to the International Anesthesio Research Society in Hollywood, Fln., that the ancethetic, isoflurane, with s chemical structure similar to the carcioogen bis(chloromethyl)ether, itself produced a significant incidence of

tumora in mice. Pulmonary adenomos were two to three times greater among isofluraneancethetized mice at six months, and three to five times greater at nine months, than they were among nonanesthetized mice, he found.

"Although all aneathetics are screened and tested for other toxic properties before approved for human usc, our studies indicate a genulne need to evaluate the possible carcinogenicity of the halogehated ethers and other inhalation anesthetie ogents," Dr. Corbett

Manufacturers have agreed to withhold distribution of isoflurane, even though routine protocols and procedures were followed to obtain necessary approvals, the university announcement

# Behavior Modification a 'Lightning-Rod Issue'

Dallas-Beliavior modification is a "lightning-rod issue" in mental health, Dr. Bertram Brown, Director of the National Institute of Mentel Health,

"Drawn to behavior modification therapy," Dr. Brown said, "ore such highly charged issues os fears of mind control and concerns about the treatment of persona institutionalized against their will."

He attributed a portion of the present ethical controversy of behavior modification to its overpopularization in such works as the movic "Clockwork Orange," and to an "incorrect linkage" to other psychiatric techniques such as psychosurgery and chemo-

Dr. Brown spoke to a Symposium on Human Experimentation presented by Southern Methodist University School

Apart from the obvious misconceptions about behavior modification therapy, he said, there

are serious and re sponsible reason: for some concern about its legal and ethical aspects. The most frequently criticized use of behavior modification, he noted. Is its use in altering the

Dr. Brown behavior of person who are involuntory participants in

"The mental health worker who proposes to modify the patient's environment to alter maladjustive bebavior can be seen as aerving the interest of the Institution rather thon favoring the right of the person to ex-

press his individuality," he said.
"Behavior modification is not a one way method that can be successfully imposed on an unwilling individual," be said. "By its nature, behavior modification will succeed only when the individual is responsive to the therapist and cooperates with treatment

#### Problems Vary With Settings

Dr. Brown contended that one difficulty in establishing ethical standards for behavior modification is that the problems vary with different settings.

In prison, where the behavioral professional is in the position of assisting in the management of rebellious prisoners, he remarked, the distinctions among therapy, management, and rebabilitation may become blurred.

"Informed consent is clearly mean-ingful when a normal adult voluntarily eeks such treatment in an out-patient clinic," be said. "With prisoners its a different matter, and it by no means clear that they are even able to give truly voluntary consent. There are apecial pressures to participate..."

# Myasthenia Gravis Booklet

New York-A ninc-page "fact book" on myasthenia grovia has been pub-lished by the Greater New York Chapter of the Myosthenia Gravis Foundatients and the public.

A common position at present, he a more adapted child but who gives said, is to recommend the elimination permission? the parents, therapists, of behavior modification programs in who?" prisons, on the grounds that such therapy is coercive. "Yet if constructive programs are eliminated, the opportunity for inmates who genuinely want to participate and who might benefit

#### The Mentally Retarded Child

made of informed consent in relation to the child in the mental retardation ally built on a foundation of human school, Dr. Brown noted. "What about experimentation." the mentally retarded child that continuously bangs his head, yet can't give informed consent?" he asked. "There are certain types of behavior modifica- with that of alternative treatment option that could possibly turn him into proaches," he said.

Dr. Brown advised theranists to first evaluate the extent to which the target population can truly give consent, then for the therapist and potient to weigh through a review committee the benefits against the possible risks of treot-

"This is still a new form of therapy," A further evaluation must also be he said. "It has been fully developed only in the last five years and it is basic-

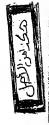
"Particularly strong is the need for additional research comparing the efficacy of behavior modification methods



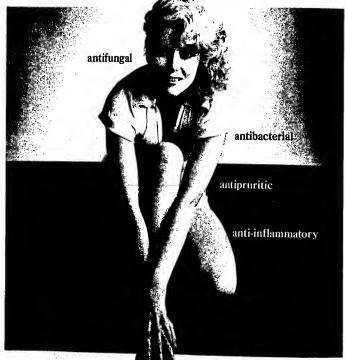
# In this age of synthetics you can choose a <u>natural</u> vegetable laxative

Senokot bablets granules





# the bare facts



It's plain to see that you need more than an ordinary topical steroid to clear a dermatitis infected with fungi or bacteria

Vioform-Hydrocortisone with its four-way action, provides many common dermatoses\*

Vioform-Hydrocortisone (iodochlorhydroxyquin and hydrocortisone)

Wednesday, April 23, 1975

The Only Independent Weekly Medical Newspaper in the U.S.

# **Medical Tribune**

and Medical News

# Malpractice Insurance

sentstives at the time of this writing (see page 2) and revised by that state's Senate merits the attention of all U.S. physicians. It is aupported by the Indiana State Medical Association and is distinguished by the formation of pretrial screening panels to hear and ad-

vise on all malpraetice cases.

The panels are to include three physicians who will present their findings to a court of law and are expected successfully to eliminate "nuisance" eases, permitting reliable actuarial figures to be developed in time for determining premiums to be paid by physicans. Unfariunately, so far as we can tell, althaugh the Indiana bill augurs improvements in the future, it does not salve the problems in those states where insurance companies are in the process of discontinuing all malpractice in-

An article on "no-fault malpractice insurance" in the March, 1975, issue of The Western Journal of Medicine by Dr. J. W. Bash and coworkers at the University of Californin, San Diego, also ignores the problem of immediate . discontinuance of maloractice insurance and addresses itself to the essential problem of how to decide malprucinsurance as unsatiafactory or, rather, inapplicable in malpraetice cases and, ad, opts for "a probabilistic framework for analyzing the lasues of malpractice insurance," in the bellef that

THE BILL ON malpractice passed by this will provide "the framework for a the Indiana State House of Representation more efficient and equitable compensation system divorced from the concept of individual faults."

Dr. Bush and his colleagues consider the usual malpractice case in which medical negligence is elalmed. They show how in any particular case calculations can be made of the likelihood of untoward outcome on the basis of the procedure chosen by the defendant physician as campared with the likelihood of untoward outcome of "accentable" treatment. Based on such calculations, a coefficient of causality can be determined, its statistical significance evaluated, and awards would be made that would assure "that all plaintiffs with some merit to their claims, recognizing that unacceptable practice was present, would be compensated in proportion to their merit instead of all or

This plan calls for review of cases by "some specialized branch of the judicinl system, like Workmen's Compensation, or perhaps by the Professional Standarda Review Organizations currently being established." This differs markedly from the proposed Indiana pretrial screening panals.

This plan seeks to eliminate the vagaries of a jury trial where, as Dr. tice cases. It dismisaes no-fault Egeberg notes, issues that are not at all germane lead in a jury's decision and the size of an award.

This is probably the shape of the future-but what of the present

# Versatile Aspirin

tility of senirin as an active drug over and beyond its untipyretic, analgesic and antiinfismmatory effects. It appears to be an inhibitor of platelet aggregation. It has been shown to inhibit leukoeyte migration into inflamed areas and to suppress the multiplication and proliferation of lymphocytes in response to phytohemagglutinins and other stimulating milogens. These are responses that are sometimes therapeutically desirable, as in the accalled autoimmune diseases.

Now a report in the March 24 issue of J.A.M.A. by Dr. Edith D. Stanley and her colleagues presents evidence

NUMBER OF editorials in MEDICAL that aspirin treatment of volunteer ATRIBUNE have referred to the versa- ehallenged with rhinovirus increases the rate of virus ahedding as compared with placebo-treated subjects. The aspirin modestly improved the local symptoms of the rhinovirus infection but the investigators speculate that if this encouraged staying on the job, it would also be more likely to increase spread of the virus to contacts. They add, "Whether the enhanced rhinovirus replication has any solverse effects on the individual host is not known, but it is possible."

It goes without saying that this merits further atudy yet it does not seem likely that use of this remarkable ageat is

# Congenital Cytomegalovirus Infection

CLINICAL QUOTE: "CMV-lgM anti- in 16/30 (53.3 per cent) children classes . . . occurred twice as often omong the lower social classes . . . was associated with variable intellectual and neurological deficits . . . is a

significant cause of profound deafness.
Prediction of school failure in

U body was present in the cord tested. Although the probability of serium of 1 in 163 generol deliveries of school fallure was not observed in Infants born to parents of all sociol CMV-IgM positive children from middle ond higher socio-economic groups, one connot conclude ... that there has not been some diminution in intellectual potential in these children." (Dr. James B. Hanshaw, Symposium on Infections of Fetus and Newborn In-



"A nervous breakdown? I can't possibly squeeze it in."

61975, Medical Tribume, Inc.

# LETTERS TO TRIBUNE

#### Costs and Blue Cross

Althaugh your article on the latest riticism of Blue Cross-Blue Shietd (MT, Mar. 5) is similar to what is bepublished elsewhere, it seems to reflect more the politics of the situntian than the setual facts. It is fashlonable but demagogic to blame Blue Crass and other insurers for failure to control" health care costs. The price of care keeps going up primarily becsuse of rising standards, not because of incompetence or greed on the part of hospitals. Despite nn oceasional wellublicized abuse of public trust, it is obvious that the vast majority of these institutions do an admirable job of providing the best possible care with the unds available.

I'm not sure it was wise to depend on Herbert Denenberg as a major source for your article. His penchant for conjuring up devils and rendering difficult ssues in stark black and white reminds one of the late Senator Joseph Mc-

It may be that the United States is approaching n genuine crisis as our rapidly expanding visions of ideal medical care outpace our ability to provide it for all our people. As a nation we msy have to make some agonizing chaices between ideal treatment for patients with such problems as endstage renal disease or metastatic cancer and everyday medical care for the large papulation groups who presently get little of it. Unfortunntely, it seems likely that such decisions will be made in the arena of national politics, a prospect that gives one little hope that they will be made rationally. Who can imagine public official saying "I wish you doctors would quit inventing all those new treatments. They are nice, but dammit, we can't afford them."

ROBERT D. GILLETTE, M.D.

# Protecting the Patient

In your editorial of March 19, 1975 "A.M.A. sues to protect patients," you said that A.M.A. has "... at long last" begun to stand up to government inter-vention into the doctor-patient relationship, and implied that A.M.A. is opposing P.S.R.O.

A.M.A. has filed sult against the Utilization Review rules promulgated in the Federol Register, not ngainst

P.S.R.O. While both accomplish the same purpose, A.M.A. delegates have approved of P.S.R.O., and A.M.A. has received a great deal of mancy to study methods of implementing P.S.R.O. The official policy of A.M.A. is thus schizophrenic; while approving the eathre P.S.R.O. package, A.M.A. ostensibly disapproves of a partian of the same

American Council of Medical Staffs filed suit several weeks before A.M.A. against H.E.W. Utilization Review Rules. C.M.S. is also Amleus Curise in the A.A.P.S suit against P.S.R.O.

It would appear that the Council of Medical Staffs and A.A.P.S. are more interested in preserving the "historic rights of putients."

Incidentally, C.M.S. also has publighed the most exhaustive and authorltative review of Adverse Drug Reactions and Generic Prescribing.

Because we're no. 2, we appareatly cannot command the attention which

KENNETH A. RITTER, M.D. American Council of Medical Staffs

#### Ascent of Man

An extraordinary coincidence oc-curred yesterday. I read Dr. Sackler's comments "One Mun . . and Medieine" (MT, Mar. 26) and the same ovening I listened to Dr. Bronowski on the TV program "Ascent of Man." They must have been collaborators The same theme was expressed in his article and on TV-the relation of acience to humanity, or rather the humanistic aspects of scientists.

I still believe that one of the most

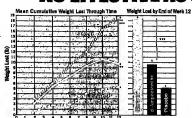
remarkable bumanistic events in the history of mankind occurred during World War II-the first collective awareaesa of social consciousness of acientists who were concerned with the development of the atomic bomb. This stood in sharp contrast to other scientists who, with complete indifference, subjected human belags to painful experiments often ending fatally. Perhaps the shock of this indifference had something to do with the birth of social consciousness of the stomic scientists. CARL S. ALEXANDER, M.D.

Professor of Mediciae Veterans Administration Hospital



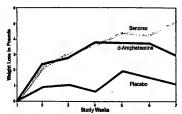


# **AS EFFECTIVE AS d-AMPHETAMINE**



(c < .001) weight loss from West 0 through and at West 12. \*\*\*Injuriously (x-cool) gration adjusted as appearance man man unitary and an accomplete in a double-blind attudy of 40 obese patients (ell of whom completed the attudy), Sanorex (1 mg t.l.d.) was more affective than either placebo or d-amphetamina (5 mg t.l.d.) In helping patients lose weight.

The 14 patients on Senorex experienced e substantially greeter mean weight loss—1½ to 2 lb/wk, as compared with 1 to 1½ lb/wk for the 14 d-amphetamine petients will 1 to 12 and 10 the 14 deampteramine potents-throughout the 12-week phase of active medication. After the elixih week, the superiority of Sanorex became increas-ingly evident, And as treatment progressed, so did weight loss in patients on Sanorex-whereas efter the tenth week, patients on d-amphetemine began to regain some weight.



In a double-bilind atudy<sup>2</sup> of 90 obese patients (59 of whom completed the study), Senorex (1 mg t.l.d.) was more effective than either piecebo or d-amphetamine (5 mg t.l.d.) In helping petients lose weight.

By the end of the third week of ective medication, weight by me and of the tinic week of ective medication, weight itsis in the 20 d-amphetennine patients begen to pieteau, and by the end of the fifth week, these patients began to regain some weight. On the other hend, the 18 patiente on Sanorax continued to lose weight throughout the sk week course of therapy.



In e double-bilnd study<sup>3</sup> of 93 obese patients (all of whom completed the study), 30 patients received Sanorex (1 mg t.l.d.), 31 received placebo, end 32 received d-ampheta-

During the 12-week phase of active medication, patients on Senorax lost en everage of 14.1 lb, compared with 13.1 lb for 4-mphetamine patients and 5.6 lb for place bo patients. Throughout the active medication phase, 63% of patients on Senorax lost more than 1 lb /wk, compared with 38% of the d-amphetamine group end 29% of

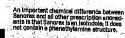
# **BUT WITH CERTAIN DIFFERENCES**

Although the pharmecologic ectivity of Sanorex end that of emphatamines are similar in many ways (including central nervous eystem stimulation in humans and enimals, as well as production

# **Different Chemical Structure**



An important chemical elmilarity between amphetamines and ell other prescription encrexients except Sanorex is the basic phenethylernine structure to which their differentiating chemical redicels ere



of stereotyped behavior in animals), enimal experiments suggest that there are differences.\* Sanorex elso differs in besic chemical structure from emphetamines and all other prescription enorexiants.

# Different Neurochemical Action

Action of d-Amphetamine In enimel atudies, d-amphetamine (like intake of food) echtese sferent neurona jeding to appetite centere in the hypothelemus. Resulting relesse of norn-principarine activets the receptor neurons. Unlike food, however, d-emphetamine southests her captor neurons. Unlike food, however, d-emphetamine southers are non-principarine synthesis. Thus, increasingly lerger doses of d-emphetamine become necessary to produce an effect.

Action of Sanorex (mazindol) After Intake of food stimuletes the release of norepine phrine from the afferent neuron, Sanorex blocks its re-uptake without disturbing normal synthesis and release.\*

# Simplicity and Flexibility of Dosage

Simple one-a-dey dosage is fecilitated by 2-mg tablets (taken 1 hour.

New flexibility (for the petient in whom 1 mg t.l.d., ie preferred) is now facilitated by new 1 mg tablets (teken 1 inour before meels).

For Brief Summary, please see facing page

# SANOREX®

References

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how Supplied: 180/1800, pschages of 100. selore prescribing or administering, selore prescribing or administering, see package circular for Prescribing Information.

SANDOZ PHANMACEUTICALS, EAST HANOVER, N.J. 07836 4.46.36

# **Congenital CMV Infections** Linked to Low IQ, Deafness

Continued from page 1 Medicine and sponsored by the National Foundation-Murch of Dimes.

Describing the findings on intelligence levels, the investigator explained that IQ levels of the positive children were compared with those of two other groups: an equal number of controls matched for age, sex, race, hirth weight, and social class (Hollingshead classifieation); and 44 children horn immediately after the hirth of an infant with CMV-IgM antibody in the cord serum.

All told, 20 of the children had m IQ heluw 90, Dr. Hnushnw said. Of his number, 12 were in the CMV-IgM positive group while only six come from the matched cuntrol group and two from the random contruls.

Of the seven children who had an IQ below 80, all had been CMV-IgM sitive at birth.

## Abnormalities in 16 of 44

Dr. Hanshaw noted that 16 of the 44 positive children (36.3 per cent) showed intellectual, behavioral, neurological, or sensory abnormalities "suffiejent to predict the need for special education not available in the usual school setting."

By contrast, school failure was predieted in six of the matched controls and two of the random-control chil-

Bilateral henring loss was found in five of the positive group, the investieach of the control groups had bilinteral

The effect of social class on congenital CMV infection was evident, Dr. llunshaw commented. Although the majority of the more than 8,000 infants tested were from middle-class families, CMV-IgM untihody was found twice us often umang infunts horn to parents in the luwer socio-

economic groups. Also, all 16 of the antihody-positive children with abnormalities "precluding adequate performance" in a normal school setting came from the lower socioeconomic groups. But this finding, in Dr. Hanshaw's view, does not rule out the possibility that congenital CMV infection may diminish the intellectual potential of children from midlle and upper sociuecommie groups.

## **Available Drugs Toxic**

In a second report on CMV, Dr. David J. Lung, of Duke University Medicul Center, labelled it "the infecious egent most frequently associated with congenital injury and damage" and cuutioned that chemotherapy of such infections "has been disappointing thus far."

Dr. Lang cited present estimates that about 40 to 50 per cent of white, middle-class women in this country are CMV antibody positive by the time they recell childbearing age, while higher rates of entibody prevalenceend cerlier acquisition of infectionheve been reported emong blecks and people of low socioeconomic status. Approximately one per cent of all liveborn infents are congenitally infected.

mental trinks in manu are associated with significant toxicity, the investigator said. As a result, he helieves it is not likely "in the foreseenfile future" that n praspective therepeutic trini will he unule among congenitally infected Infunts who seem rensonably healthy.

A further problem eited by Dr. Lang is the difficulty of making a clinical identification of n primary CMV infection during pregnancy. It appears most often as a mild, undifferentiated or subclinical illness, he pointed out, and the clinical syndromes "are even less well defined than those accompanying rubelle."

Although Dr. Lsng egrees that e CMV veccine is needed, he werned that many questions must be resolved before more clinical trials of the present experimental vaccine could be

There is no precedent for the "deliberate administration of n virus that may establish a latent or persistent infection," he said. Additionally, there are no criteria established for attenuution of CMV-and these ere hard to ilctermine "when the wild-type virus usually induces very mild illnessea."

Other questions posed by Dr. Lnng: fs the apparent attenuation achieved after tissue culture passage liable to in-

tually manifest significant damage.

The drugs now liceused for experi-

Minnesota communities affected by shortages of medical personnel many in isolated nreas near the Canadian border, are being helped liy a computer pincement service ni the University of Minnesata. The service matches economic base, recrentional fecilities, and population of towns with the preferences of graduating medical students. Abave, a third-year student looks over the list of communities wantings doctor.

Computer Placement

creese the likelihood of the persistence of CMV and/or the neoplestic trensformation of infected cells? Would n "killed virus" vaccine interrupt patterns of CMV trensmission?

"In spite of the pressing need for control of CMV," he concluded, "insufficient information exists relevant to oatural patterns of virus spreed end control to permit the evaluation in men of modified CMV etrains at this time."

# gutor said, and three of these children ure profoundly deal. Only one child in Beneficial Results Reported With Splenic Artery Ligation

By RALPH COSHAM
Special Tribune Correspondent

TUCSON, ARIZ.-A University of Arizana surgeon lins revived a 95-year-old procedure to reduce the need for-and risk of-splenectomy in hypersplenic

Dr. Charles L. Witte, of the University of Arizona College of Medicine, told the snoual meeting of the Society of University Surgeons that he has obartery ligntion in selected patients with hypersplenism, certain blood dyscrasins, and cirmosis of the liver.

Dr. Witte seid the adventage of splenic artery ligation is that it reduces the activity of the spicen without total

destruction of the organ.
Noting that total splencetomy increases the risk of infection, he said it has not yet been demonstrated that the spleen's protective function is retained after splenic artery ligation, "but thet is what we ere trying to show."

Dr. Witte and co-workers ere injecting rats with sheep erythrocytes, the antibody to which is produced in the

"Splenectomized rsts will not pro-duce the antibody," he sald, "We are

hooing that the ligated ones will." in previous experiments, he went on, splenie ertery ligation reversed hema-tologic abnormalities in Sprague-Dewley rets in which hypersplenism had been artificially induced.

The procedure was then tried to twin boys with hereditary spherocytosis and

n young girl with idiopathic thrombo-

cytopenic purpura (ITP).
"These patients had a reduction in their functional splenic moss," Dr. Witte reported, "and in the hereditary spherocytosis, the most important thing is that the blood hematoerit and retieulocyte count have been stable for almost 18 months.

#### immediate Rise in Plateleis

"In the pnticat with 1TP we had an immediate rise in pletclet count, bounced around for a while, but 16 months postoperatively it was normal."

"One can get spontaneous remission in ITP," he said, "but the fact is this girl had symptoms of bruisability and nosebleeds and low platelet counts for a yeer before we ligated the artery."

Among the other patients were three with cirrhosis of the liver end splenomegaly with various kinds of cytopenia, Dr. Witte said.

Splenic artery ligation produced-in two of the patients-clinical, symptomatic, and blood count improvements, he seid, edding that "it mey not be as good es if we had done a splenectomy, but it's good enough to produce a remission and they still have the sdventege of the splenic veins in that area."

"Putting the ligature too close to the origin of the splenic ertery rether than of the end may be why earlier efforts with this procedure felled." Dr. Witte commented. "They may have been getting tremendous colleterals without even knowing it.'



# **CPK Isoenzyme Is Reported** Good Index of Size of Infarct

Continued from page 1

The studies of infarct size were made by a naw kinetic fluorimetric procedure developed at the St. Louis center that can assay MB CPK quantitatively, according to Dr. Robert Roberts, Estimaias were based on hourly changes in serum values of the isoenzyme.

With uncomplicated Infarction, he commented, the isoenzyme released into serum paratieled total CPK released. Estimates of infarct size calculated from MB CPK and from total CPK agreed closely, with a correlation coefficient of 0.97

# Complicated-Infarction Studies

Dr. Roberts said the special usefulness of the quantitative assay of MB became apparent in studies of patients with complicated infarction. In such cases, he noted, realistic estimates of infarct size based on total CPK are not possible because noncardiac CPK will have been liberated into the circulation, It was found that infarct size esti-

# **Allergists Disagree** On Cromolyn Sodium

SAN DIEGO-Cromolyn sodium received mixed reviews in two clinions trials of its efficacy as a drug for allergic rhinitis at the 31st annual meeting of the American Academy of Allergy here.

In one double blind study carried out by Drs. Alan Knight and Brian J. Unterdown in Toronto, 15 of 17 patients who received the drug intranasally reported that cromolyn sodium was effective in reducing symptoms typical of hinitis caused by hayfever pollen,

In the Canadian tests, in which 22 patients were also given a placebo, treatment was begun one week before the beginning of the ragweed pollen season. Compared to the 15 patients who reported improvement after treat-ment with cromolyn sodium, only six of the placebo group said they felt better.

Not so good were the results of another trial of cromolyn sodlum carried out by Drs. William A. Tuffiash and James A. McLean of Ann Arbor, Mich. In a study of 40 patients, they found the drug was "no more effective than a placebo" in controlling symptoms of seasonal allergic rhinklis when treatment was begun two weeks prior to onset of the ragwood pollen season.

mated from serial changes in the serum Isoenzyme activity was significantly less than the size estimated from total CPK. The investigators conclude that the isoenzyme spproach permits a reliable evaluation of the extent of infarction in patients with shock accompanied by release of CPK from sources besides

Describing assays of the isoenzyme following cardiac catheterization, Dr. Philip A. Ludbrook reported that blood samples for determination of total CPK and MB isoenzyme activity were obtained from 50 patients immediately before the procedure and every two hours thereafter for 24 hours.

None of these patients developed clinical or ECG evidence of myocardial injury or infarction.

For purposes of comparison, the sama determinations were made on 50 patienis with recent transmural myocardial infarction and on 20 hospitalized controls with no form of cardiae

Total peak CPK activity was significantly elevated in three-fourths of the 50 patients undergoing catheterization and mildly increased in the rest, Dr. Ludbrook said.

"However, MB CPK activity re-majord within the normal range in all cases," he reported, "indicating that myocardial damage did not occur and that increased total CPK activity did not reflect release of enzyme from the

In the 50 patients with documented myocardlal infarction, peak total CPK sctivity was also significently elevated -reaching levels considerably higher than those observed in the estheterization group. But in sharp contrast to the MB findings in cardiac catheterization patients, all 50 of the infarction patients showed algorithmically elevated

MB CPK isoenzyme activity.

The CPK alavations seen after catheterization reflect releasa of enzyma from noncardiae sources rather than from injured myocardium, Dr. Ludbrook sald, Increased serum MB CPK isoenzyme setivity, he added, remains

a specific and sensitive criterion of myocardloi damage in patients undergoing cardiao catheterization and corooury arteriography.

Counthors of the two reports in-cluded Drs. Burton B Sobel and



Chromatids performing a "Dance of Life" as painted by Barhara Harris is one of a series of murals done by fine art students to brighten the otherwise drait fence surrounding the construction site of the Surgery-Brain Research Pavillon new going up at the University of Chicago,

# **Survey Finds Little Change** In Clinician Use of Rauwolfia

vary muddy at the moment and I think it's going to take a lot of careful prospactive looking-at with years of

Breast cancer is very common in obese people and hypertension is very common in obess people. And hypertension is very common in the age group that gets breast cancer, around menopauss, I think the only answers

will come from prospective studies."

Dr. Jeremiah Stamler of Northwestern University Medical School calls the situation "troublesoma." "There is reason for concern," hs said, "but I think at this point the issua is open."

## Situation Troubles

"I don't think one can conclude that a definite association (between rauwol-fia use and cancer) has been demonstrated, or that a definite association has been refuled.

"I think the situation is troublesome because resarpine is a very useful drug. It's effective, and low in cost, and many peopla have tremandous risks because hypertension,

"Pending further evaluation, we're continuing to use the drug. We're watching closely, but we're continuing to use it. Dr. Stamler said.

Dr. Herbert G. Langford, Director of the Division of Endocrinology at the University of Mississippl and chairman of the steering committee of the National Hypertension Detection and Pollowip Program, also said ha feels more studies need to be dona. On the cluded Drs. Burton B. Souter and more studies need to be done. On the Edward S. Weissi H. Dieter Ambosr basis of the studies so far, though, he said he would "bet against" a causal

# Chronology of 3 Studies on Rauwolfla Therapy

The first studies to link rauwoifia herapy and breast cancer were done by interlocking groups at the Boston Collaborative Drug Surveillance Program, Oxford University, and the University of Helsinki (Lance). Sept, 21, 1974.)

The next study from the Chicago Peoples Gss Company (MT, Decem-ber 25, 1974), found no avidence of a link batween rauwolfia therapyin men-and cancer, but indicated that there may be an association be-

tween hypertension and cancer. Most recently (MT, April 9), a Mayo Clinic study, using women with cholelithiasis as controls, found no excess of breast cancer in women who had been on rauwolfia therapy.

An H.E.W. ad hoc committee, esting to sssess these data at the National Heart and Lung Institute on March 24-25, called for more data and further examination.

relationship between reserpine and

What the whole matter suggests to him, Dr. Langford said, "is a cluster, or a constellstion . . . or a syndrome, you might say, of being a little hypertensive, and a little obese, and going to the doctor, and getting drugs-and these could also go along with gallbladder diseasa."

He added that all his patients have been informed about the studies concerning ranwolfia derivatives and "practically none of them have asked to be taken off it."

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Wednesday, April 23, 1975

ARTHUR M. SACKLER, M.D.,

# Mystification

Part 1

Fos years, as we sought to quantitate experimental stress utilizing simple stim uli such as sound and vibration, we noted marked physiologic deviations in our experimental mimals. I therefore was upset to confront Leanard et al's pejorative "myslification" as a challenge to practicing physicians who use pharmaeotherapy

for relief of anxious and disturbed ontients for what Lennard calls "common. everyday stresses of living." I first came across this neologism in their article nubfished in 1970.1 I did not realize then, as the authors cited, "The concept of 'mystification' [had] originally [been] described by Mnrx." It added to my mystification to observe that this introduction of Marxist terminology coexisted with the radics! right, pulitically-motivated drug hysteria which was linking young drug abusers with the radical left.

Because I believe that the presumption of innocence and of good faith must extend to those with whom 1 disagree us well as those who think as I do. I put the matter aside. The pressure of events conspired to delay careful study of the claims of Lennard et al. In the past, in respect to most physicians and scientists, despite conflicting differences in reported findings the premise of innocence and good faith iss for the must part proved out, in fact, such disputed biologic differences became a primary point of departure of our inhorntury investigations which we have grouped under the rubile. Common Unreengnized Variables in Biologic Experimentation."

#### Equate Physicians with "Pushors"?

Recently, I reread Lennard et al's book, Mystification and Drug Misuse,2 and reviewed their 1970 and 1967 nrtleies,3 I would have hoped that these authors also started with a presumption of innocence and the premise of good faith for their fellow professionals. It serves the interest of neither science nor society, neither of palient nor physicians to write, as they do, that "The administration of a drug serves latent functions for physicians as well as Inr patients and for pushers as well as ad-

To equate physicans subtly, or not so subtly, with pushers, patients with addicts, does not contribute to physicisn-patient collaboration. I must confess I am mystified as to the motivations which lead Lennard et of to suggest that major rationale for a doctor's prescription is that it "legitlmizes the doctor-petient contract," may help "a physician to molutain a sense of accomplishment and to allay his frustrolon" and "may help some physicians retain a sense of mastery in the doctorpallent relationship." When, as an intern, house physician, and resident, I gave aedatives on evening rounds, I wasn't (as the authors imply) eliminating the "inconvenience of having to Africa. respond to demands from patients." I

believed I was promoting a good night's sleep, in a difficult environment, under trying circumstances.

#### Bellef about Drugs

The book advances the authors' belief that "The contemporary trend of tive drugs seems to be contributing to rong into a way of life in which the regulation of personal and interperround processes is accountished through the investigat of drays."

There is no consistency, however, between the known nation of illegal psychoactive drug abuse-highest in young males, and for hard drugs, highest in black males, and the authors' report that a national survey of prescription drug use in 1967 "found that nrice ar mater women (31 per cent) us men (15 per cent) had used pyrchiactive agents during the preceding 12 umnth period. . . . There were about mater differences in parelmactive drug nse mnono religious mul rachil grants. The same survey found that Jews use psychoactive drugs considerably more dum do Cathalles at Protestants and that the percentage of Negrues using neveloactive denos is univ about anehalf (13 per cent) that of whites 126 per cent)." Clearly there is no relationship either between the number of physicians practicing or prescribing in eletto areas and beroin shuse; nor is the frequency of alcoholism higher in Jews than in Catholics nr Protestants; nor does the incidence of alcoholism relate to the sex differences in psychotronquilizer prescriptions. In fact, these are 180 degrees out of phase.

#### Addiction and Social Influence

Despite the indisputable fact that social influences do affect addiction, it must be recognized that the most frequent and most serious prototype of Western addiction, alcoholism, not only cuts across economic groups in any one society but affects even the most varied societal structures. Alcoholism in canitalist Atlantic City does not distinguish itself readily from alcoholism in communic Zagreb; Leningrad does not third-party private insurers, and irrehave a lower incidence than London, or Warsaw than Washington. As to non-western psychotropics, the use of charas in Calcutta doesn't differ in tients will be covered, too. Some PSROs ultimate effects from marijuana in sre already trying this experimentally."

Marrakesh, ganza in Ghana kif in Although he thinks PSRO will mesh Marrakesh, ganga in Ghana, kif in Kashmir, or hashish in tribal areas of

problem of psychoactive drug abuse? Apparently neither the tribal nor communist forms of society, nor the democratic, nor monarchial systems. It becomes imperative, therefore, to seek to isolate relevant elements with realistic potentials for prevention or control or reduction in abuse.

Next week "mystification" continues,

1. Science, 169:438, July 31, 4970 2. Mystification and Drug Misuse, 11, L. Lennard et al, Jossey-Rass, Inc., San Francisco, 1971, 3. J. Nev. & Ment. Dis 145:69, July, 1967

# PIGRAMS - Clinical and Otherwise

A sick mon dreams nothing so dreadful that some philosopher isn't

Marcus Terentius Varro 116-27 B.C Satires, frag. 122

Medicine on Stamps Table SPECIAL CONTROL CARRESTS.

Born in 705, Jabir, or Geber, was a

healer, though he is best known as the father of modern chemistry. He is credited with the discovery of nitrie neid and aqua regia and described distillation, filtratioe, and sublimation. About 500 books have been attributed to his authorship.

Text: Dr. Joseph Kler Stamp: Minkus Publications, Inc., New York

# liet that "The contemporary trend of increasing prescriptions of psychoac Doctor Resistance to PSROs the recruitment of more and more per- Is Dying Out. Says Simmons

Communed from page 1

changed their positions-for example, Inding, Illinois Nebrosko, I'm convinced that he virtually every area of the country, the profession with cume furward and do the job, and there'll be no need to bring in non-physicians to

urganize the programs," According to Dr. Simmons, there are only four states (Genrgin, Texas, Okluund Lucisiann) where no plans hare yet been filed. The PSRO mandate of the 1972 Social Scentity nmendments, designed to oversee hospital care of Medicaid and Medienre patients, curries a Jan. 1, 1976 deadling for submission by local physicians of necessinble nines of implementation to 11.E.W. Failing this, medicul schools or consumer groups might be brought in to milar the program in place of physi-

## Measuring Up to Expectations

Esrly data on operative PSROs indiestes to Dr. Simmons that they are measuring up to expectations. He cited reports of decreased length of hospital stays from each of the districts. Less tangibly, he believes there has been "an improvement in the quality of care pro-vided" in these districts. He revealed that several private insurers, among them the "Blues" and the Health Insurance Association of America, have cxpressed interest in baving PSRO committees pass on their potients, and are now negotiating with H.E.W. to coordinste and unify review mechanisms.

"Reentually, I axpect there will be a uniform system of reviewing all hospi-(si patients, whether their bills are being picked up by the government or National Health Insurance. I don't rule out the possibility that one day outpa-

smoothly with a National Health Insurance scheme, Dr. Simmons does not Which social system has solved the see NHI as a prerequisite to success.

He does admit unhappiness with the Congressional cut in the PSRO budget for the coming fiscal year, howeverfrom \$55 million that was asked for, to \$37 million. "It puts us into a bind. We're going to have to be extremely economical in how we distribute what we have and physicians will have to be extra-careful in developing their plans. Frankly, the open question in my mind now is nut whether all 203 districts will have given us plaus by Jan. I, but whether we'll have enough monoy to fund them all properly.

## A 'Problem,' Not a 'Crisis'

Nevertheless, Dr. Simmons insisted on calling the budgetary matter a 'problem" rather than a "crista," and ilenied that it was endangering the survival of the program, as both some supparters and opponents of PSRO have implied.

He also sought to minimize the effeet of the suit now being heard in federnl court in Chicago, in which the A.M.A. is trying to block H.E.W. plans for hospital utilization committees that would include non-physicians. These committees, he said, would only be temporary and would be phased out as sonn as PSROs were in place.

As for civilian participation, it was for the doctors' own good-"to relieve them of onerous paperwork. Contrary to what the A.M.A. says, sll final decisions are still reserved for physiclans."





Wednesday, April 23, 1975

# **Harvard Enters Pact on Cancer** With Monsanto

BOSTON-The Harvard Medical School and the Monsanto Company are under-stood to have entered into a "working arrangement" under which the compeny will provide cancer research financing in return for the commercial rights to any resulting discoveries.

The funding, over 12 years, may reach a total of \$23,000,000, plus biologic materials, equipment development, and industrial know-how, according to informed sources. The money is intended to support the work of two Harvard scientists, Drs. M. Judah Folkman and Bert L. Vallee, who have each made important discoveries in basic cancer research.

The school and the company described the arrangement as an alliance designed to permit the Harvard scientists to pursue their research wherever it may lead, without interference.

An independent advisory board will protect the rights of both parties and those of the public, it was reported,

#### **Toward Rapid Application**

Framers of the agreement not only see mutual benefita, but also feel there is a need to develop a system of applying accumulating knowledge more rapidly to meet human needs. They expect this alliance to generate practical tech-

niques for accomplishing this.

Dr. Folkman is chief of surgery at the Children's Hospital Medical Center here. He is best known perhaps for his work in growing whole malignant tumors to permit long-term studies on their growth rate and metabolism. He recently identified a tumor anglogenesis factor (TAF) that triggers the development of the blood vessels that feed such

Dr. Vallee's research has focused on the function of a zine-dependent enzyme in the leukemic process that he hypothesized more than 25 years ago, long before tools for quantitating it ex-Isted. He is director of the medical school's Blophysics Research Laboratory at the Peter Bent Brigham hospital.

In the Harvard-Monsanto project, the two selentists will join forces ln a greatly expanded effort to determine the nature and function of TAF in order to modify its action.

Monsanto's capabilities for aynthesizing and concentrating chemical com-pounds are expected to be Important contributions to the Vallee-Folkman

Herbert A. Shaw, a spokesman for the medical school, said that Harvard has never entered into such a relationship before. If it succeeds, it may provide a solution to the recent drastle cutbacks in support from traditional re-

# Rural Service Required

CARACAS-All Venezuelan medical sehool graduates will be required to spend one year working in small rural towns before being permitted to practice in the cities, under measures now being drafted by the Government.

**ee** It should be emphasized...that most patients tolerate guanethidine with minimal side effects, when dosage adjustment is carefully managed

when hypertension threatens to outrun control...

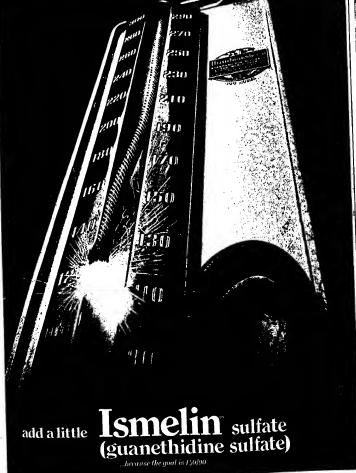
"It should be emphasized... that most patients tolerate guanathidine with minimal side affects, when dosage adjustment is cartfully managed." as associated with such drugs as the ganglionic blockers can be avoided by substituting a little is made in the treatment of moderate hypertension. Bacause guanathidine is jernspatched to moderate hypertension. Bacause guanathidine is jernspatch most effactive antihypertensive agent ever available, ismailn usually brings blood pressure down bearsympatholotic effects. Further, when used with this gloss, the required addition may be low." Of course, whenevar Ismelin is added to other antihypertensives, initial doses should be small, and increased gradually by small incre-

ments. Once blood pressure control is achieved, all drug dossages should be reduced to lowest effective level, often minimizing side effects. Patiants should be warned about the potential hazards of orthostatle hypotension, and cautionad to avoid sudden or prolonged standing or exercise.

exercise.

A little extra patient coopera-A name extra patient coopera-tion may be required.

But may well be worth it—for the extra protection Ismelin offers





The bond market always determines not only the direction of stock market moves but also the timing.

A recent bond report in the Wall Street Journal took the form of an interview with the chief credit rater at Standard and Poor's. It quoted him as warning that business generally-and top-rated ones in particular-are underfinanced. It cites him as predicting a still more desperately underfinanced condition for the U.S. Government; he quessimated that it needs to raise at least \$90 billion this year in the public

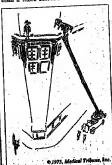
"That will leave precious little for everybody else," the Wall Street Journal quotes the Standard and Poor's rater as saying. There's no way the Federal Government can play the heavy as the big pig at the credit trough and still leave enough for the smaller eredit users who are its partners in tax

#### On Borrowed Time

But the buildup in new demand for bond money and the run-up stock prices are on a collision course. The run-up in stock prices may reverse it-self. The buildup in the demand for new bond money is not about to. The trustworthy time for a run-up in stock prices is when no one wants to raise new money. When everyone who can get it needs it, like now, stock prices become suspect. They never run uphill

agninst bond yields for very long. The stock market is living on borrowed time that is running out in the face of a bond market being broken by

Treasury borrowings.
The runnway in Government borrowings, plus the underfinanced conditions of the best corporations, guarantees that bond yields will remain at 9 per cent or go still higher. The reversal in stock prices may prove more serious than a mere correction.





# Group B Strep Infections 'a Major Threat' to Newborn

#### Medical Tribune Repor

NEW YORK-Group B hemolytic streptococcal infections have become a maior threat to newborn infants through out the U.S., Dr. Mariha D. Yow. Professor of Pediatrics, Baylor College of Medicine, told a National Foundation symposium on fetal and neonatel infections here.

The infantile diseases caused by Group B streptococci, "relatively insignificant" ten years ago, have not replaced others in the nursery, Dr. Yow said, but have been added on. For example, the incidence of bacterial meningitis in the newborn at five hospitals in Houston, Texas, which "parallels experience in other cities," has virtually doubled during the last five years, while incidence of infections from other groups of atreptococci has not appreciably diminished.

#### Broad Spectrum of Itiness

The spectrum of illnesses caused by Group B streptococci, she said, ranges from asymptomntic colonization to serious and fatal disease, and includes septicemia, meningitis, arthritis, pneu monia, empyema, osteomyelitis, ethmoiditis, cellulitis and conjunctivitls.

When onset occurs during the first week of life, there is a high mortality rate (60-75 per cent), severe multisystem involvement, and the etlologic agent may be any of five serotypes of streptococci; when onset is after the first week mortality is lower (14-18 per cent), infection is due almost exclusive ly to type III organisms, and the affected site is mainly the meninges.

According to Dr. Yow, the mode of transmission of infection in the "early onset syndrome" in directly from the mother to the infant; this has been determined by the "complete concordance between the strain of organism harbored in the mother's vagina and the organism her infant was colonized by.' The acquisition of infection in "late onset disease" is less clear, but there are suggestive signs that the nursery environment itself is nn important source of colonization. A Houston study last year found that the rate of infant colonization by Group B streptococci from just after birth to time of discharge from hospital rose from 22 to 65 per cent.

## Discrepancy With Attack Rata

The same study noted a marked discrepancy between the high infant colonization rate (65 per cent) and the disease attack rate in the infants which wes only three per thousand live births (.3 per cent). Dr. Yow stated that there was little known as yet concerning the immune mechanisms that might account for this, but it is recognized that low birth weight and prolonged rupture of maternal membranes do predispose to invasion in "early onset" disease.

Maternal infection with group streptococci is generally ioapparent of expressed as bacteremia or amnionitis with low grade perinatal fever. Bacteriologic isolation and diagnosis are accomplished by growing pure colonies of the infecting organism, extracting the group carbohydrates, and demoostrat-

#### Attarnative Method Suggested

Since this procedure may be impractical in the ordinary clinical laboratory Dr. Yow suggested an alternative methed of establishing streptococcal grouping using a battery of five tests: determination of hemolytic activity, bacitracin susceptibility, hydrolysis of ao-dium hippurate, hydrolysis of esculin in presence of 40 per cent bile, and toleronce to 6,5 per cent NaCl broth.

Where serotyping is required, it can be requested from the Center for Diseese Control, where a rapid flourescent antibody technique for identifying nursery persoanel, there were no

ing o serological reaction between the extrocted antigen and specific grouping been developed.

is discovered as the etiologic agent, immediate and vigorous treatment with penicillin is "essential because of the serious and fulminnnt nature of these illnesses, both in the early- or late-onset syndromes," Dr. Yow said. Penicillin administered intravenously over a period of ten days will eradicate most of the organisms from the blood, spinal fluid, and other foci, she said, although tissue damage may be irreparable and the throat and rectum may continue to harbor the organism.

Besides vigilant cleanliness and scrupulous hand-washing on the part of

prophylactic or preventive measures against infant B-streptococcal disease that Dr. Yow could recommend at

Routine treatment of vaginally col-Whatever strain of B-streptococcus onized pregnant females with peniclilin could not be justified, in view of the widespread prevalence of colonization and antibiotic side-effects, she said "You would have to treat 500 adults per 1,000 live births for a disease whose attack rate is no more than three in e thousand, "Dr. Yow pointed out, "and even then, we know that lateonset disease can be acquired noso-

Instead she called for more lavestigetion into the factors that influence the ecology of the maternal vagina, changes in herd immunity, virulence as related to scrotype, and the natural history of

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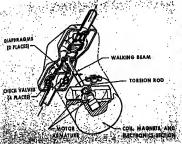
verage Number of Nightlims Awakesings our Geographically Separated Sleep Resear Laboratory Clinical Studies, 16 Subjects

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insomnia?

Wednesday, April 25, 1975

# NASA Pump Adaptable to Heart-Lung Systems Disrupts Fewer Red Blood Cells



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May 3-7, 1971

2. Freat ID Ir. A system for autorunically suelying sleep, Scientific exhibit at the 24th annual Clinical Convention of the American Medical Association, Boston, 1967 and 21th 24th annual Scientific meeting of in Actrospace Medical Medical Association, Medical Scientific Medical Scientific Actionston, Apr 26-29, 2019 and 1967 an 4. Dement WC: Data on file, Medical Depart ment, Hoffmann-La Roche Inc., Nutley NJ 5. Dais on file, Medical Department, Hoffmann-La Roche Inc., Nulley NJ

Before prescribing Dalmane (flurezeps m HCI), please consult complete product information, a summary of which follows:

succession, a summery of which formers indications: Effective in all types of Insomina characterized by difficulty in falling asleep, frequest nocturnal awakenings end/or early maring awakening; in patients with recurring insomina or poor sleeping habits: and in acute or chronic medical situations requiring restill dates. Since incompile to often transfer. restful sleep. Since insormina to often transic and intermittent, prolonged edministration

Warnings: Caution patients about possible combined effects with alcohol and other combined effects with alcohol and other CNS depressants. Caution against hazardaus occupations requiring complete mental alertness (e.g., operating machinery, driving). Use in women who are or may become pregnant only when potential benefits have been weighed against possible hazards. Nut ommended for use in persons under 15 years of age. Though physical and psycho-logical dependence have not been reported on recommended doses, use caution in administering to addiction prone individual

or those who might increase dosnge.

Precentlans: In elderly and debilitated, initin Pressultana: In elderly and elbilitated, nitrial dosage should be limited to 18 ng to predude over-sedation, dizziness and/or attuxia. If combined with other drugs having hypracis or CNS-depressant effects, consider potential additive effects. Employ usual prexacultors in patients who are soverely depressed, me with latent depression nr suided in clouderless. Periodic blood counts and liver and kidney function tests are advised during repeated therapy. Observe usual prepantitums in presence of immaried remote here better the contraction of presence of impaired renul or hepatle function.

Adverse Reactional Dizziness, drowsiness, Itginheadeducss, staggering, atuxia and Initing have occurred, particularly in elderly

or debilitated patienta. Severe sedation, lethargy, disorientation and come, probably indicative at drug intolerance or overdosage, have been reported. Also reported were headache, hearthum, upset atomach, naus ea vomiding, diarrhes, consalpation, Ol pain, nervosanes, talkutiveness, epopethenation, irritability, weakness, palpitations, chest pains, body and joint pains and GU com-pointers. There have also been rare occurrences of sweating, flushes, difficulty in focusing, blurred vialen, burning eyes, fraint ness, lypiotension, shortness of breath, pruritus, hypotension, shortness af breath, pruritus, skin rash dry mouth, bliter taste, excessive aslivation, anorexia, cuphoria, depression, siurred speech, confusion, restlessness, hallucinations, and elevated SOOT, SGPT, total and direct billrubins and alkaline. phosphatase. Paradoxical reactions, e.g., have also been reported in rare instances Dossas Individualize for maximum beneficial effect. Adults: 30 mg usual dossage; 15 mg may suffice in some patients. Elderly or debilitated patients: 15 mg initially until polied Capsules containing 15 mg or

# Depend on highly predictable results with

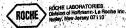
# **Dalmane** (flurazepam HCl)

One 30-mg espaule h.s.— usual sduli dosage (15 mg may suffice in some patients). One 15 mg espauls h.g.— Initial dosage for

# specifically indicated for insomnia

Objectively proved in the sleep research laboratory:

- sleep with fewer nightlime awakenings
- m sleep within 17 minutes, on average
- a sleep for 7 to 8 hours, on average,
- with a single h.s. dose.



Boston-A pump originally designed to circulate fluids in astronauts' space suits is being tested for use in extra-corporeal heart-lung systems and "could conceivably" make it possible for the heart to be bypossed for an indefinite number of days or weeks, a team of scientists reported at a meeting of the Association for the Advancement of Medical Instrumentation.

The Apollo dnuble diaphragm pump (ADDP), which is also being investignted for adoptation in implantable artificial heort-lung systems, is signifienntly less destructive to red blood cells than any existing pump now used in heart-lung machines, the team re-ported. These findings were based on, Continued on page 23

# **Doctors Are Alerted** To Tick Typhus Rise

NEW ORLEANS-With the approach of the late spring and summer outdoor senson, physicians should suspect tick typhus, or Rocky Mountain spotted fever, when confronted with an ocute febrile exanthematous illness-especially in a woman or child, the Pediatric

Pathology Club was told here. An unprecedented 774 cases of the disease were reported last year by the Public Health Service, 416 of them in the South Atlantic states where tick typhus is endemic, according to Dr. Hal K. Hawkins of Duke University School of Medicine. In 1973 the national total was 638 cases, the previous

Dr. Hawkins, a pathologist, womed that the typhus may be mistaken for measles and meningococcemia.

He reported to the Club on experience with 120 children who -were treated at Duke over the last 30 years.
All had the clinical hallmarks: fever,

rash, and a history of tick bite. Hyponatremin was present in 43 of 49 children tested, reflecting the increased vascular permeability charac-. teristics of the disease. Thrombocytopenia was present in 25 of 33 patients in whom quantilative platelet counts were made. Findings at autopsy re-

llected generalized vasculitis.

Dr. W. D. Bradford is in charge of the Duke study. Dr. C. R. Abramow sky and Dr. Hawkins ore his associates.



# 1971 ...a difficult child, a distraught mother Medical diagnosis: MBD.



Robert Boynton, second of five children, born October 7, 1963, Nor-

mal pregnancy and delivery.¹
From the age of 3, Robert's
nother found him "hard to handle," "wilder" than his brothers and sisters.1

At age 6, after an "extremely difficult" experience in kindergar-ten, Robert was referred to a pediatric neurologist. The examination and later psychological testing revealed a host of the neurologic "soft signs," plus an abnormal EEG! The diagnosis: average intelli-

gence, but multiple signs of an

underlying organic dysfunction.

At age 7, Robert was placed in a special first-grade class called an "extended readiness program."

Later that year, her child's continued problems at school and at home made Robert's mother "increasingly desperate" for help.

# 1974 ...a regular fourth-grader, accepted at home

In the opinion of the physician, methylphenidate (Ritalin) was called for to help the child over the obstacles of hyperactivity. So he initiated a trial of the drug, which was then implemented on sehool days only. The improvement in classroom performance and behavior was "prompt and dramatic." Robert's teacher could "scarcely believe" that he was the same child.

the same child.

For the past 4 years (as of April 1974),
Robert has been maintained on 15 mg methylphenidate daily during school periods. During the summer he attends day camp and is not on medication. He is in a regular is file on niedication. He is in a regular fourth-grade class, and behavioral problems at home have lessened. Robert's parents now find it much easier to accept their son.

accept their son."
Note: In this presentation, clinical
material has been used factually
with the permission of the physician. However, identities have been
concealed and names changed.

How other children with MBD can benefit from methylphenidate therapy Of course, medication is not indicated for all MBD children; nor will all such children re-

all MBD children; nor will all such children respond to drug therapy.

However, when pharmacotherapy is clearly indicated, the use of a widely successful drug such as Ritalin (methy) phenidate) may prove to be a significant element in nany complete remedial programs.

Over a decade of controlled studies has underlined the beneficial effects of Ritalin in producing improved behavior ratings, \*\* Deter motor coordination, \*\* and comition and learning. \*\* Indeed, it is currently the drug of choice in many MBD situations. \*\*

And side effects with Ritalin have occurred less frequently than with other stimulant drugs. \*\*, \*\*

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# An MBD child on the road to maturity Ritalin (methylphenidate) can help when medication is indicated

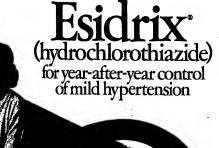




Gentle in bringing patients down to normotensive levels, Esidrix will continue to "sit right" with many of the mild hypertensives for whom you prescribe it. Indeed it can mean years and years of even, uneventful control. Esidrix. It is still unsur-

Contraindications include anuria. Use cautiously in patients with impaired renal or hepatic function.

passed as a basic diuretic/antihypertensive. And many patients with edema rarely need a more potent divretic.



Ealdrix® thydrochlorolhlazida

possibly the srous.

Use with a sullion in severe renal disease, in pa-lays with real disease, inhazidas may precipily the sulline sulline sulline sulline sulline sulline sulline that suchemis. Commistive a literal of the drug may the sulline sulline sulline sulline sulline sulline to the sulline sulline sulline sulline sulline sulline disease, since minor a seasolone of the grad sulline rought stress and sulline sull

action to other still panel lond or periphanal automation blocking drugs.
Spensitivity reactions are more likely to occur in patients with a history of allargy or bronchial statume. The postability of axecerbation or scivation of systemic tupus crythamations has been reported.

# TRIBUNE SPORTS REPORT

# **Proper Shoe Fit Important** For Avoiding Ankle Injuries

injuries, team physicians should always check football players' shoes for proper fit, Dr. E. R. Guise of Detroit told the American Orthopaedic Society for Sports Medicina here.

Shoe soles that are too small predispose the foot to pronation or supination, be said.

Newer shoes with larger soles and cleats distributed near the edges of the soles should help cut down on the aumber of serious ankle injuries, Dr. Guise said, but physicians should still check for fit because football players "have a tendency to put a size 14 foot into a size 11 shoe."

## Team's injuries Studied

A study of the significant ankle injuries to members of a professional football team over a five-year period showed that 16 of 20 were pronation external rotation injuries and the rest were supination internal rotation injuries, he reported.

When minor as well as major ankle injuries were considered, the supination internal rotation injuries were found to be the more frequent.

Such injuries ara usually treated with apport and a supportive high-top

shoe, Dr. Guise noted. The pronation external rotation in-

juries, which kept players out of action SAN FRANCISCO-To help avart ankle frum one and it half to seven weeks, typically occurred when a player making a sharp turn or cut either lost his balunce or was tackled.

The sudden interruption in motion with the foot in an abnurmal position, given the size and speed of football players, can place a force equal to 1,264 pounds of stress on the ankle, Dr. Guise explained.

While no correlation was noted between the typa of playing surface and the type of ankle injury, he said, an uneven surface and a poor-fitting shoe were found to be contributing factors.

The more serious pronation injuries required rigid immobilization, usually in a east for two weeks, followed by a pariod of supportive high-top shoes with exercise, compression, and whatever other treatment was indicated.

In pronation external rotation injurles, the anterior talofibular ligament is oftan ruptured, Dr. Guise said, and sn extreme form of the injury is a fibular

If a pronution injury is suspected, plastar should be applied immediately to prevent pain and swelling, he advised. The temporary east can be removed the next day, when a more thorough assessment is made and a



## IMMATERIA MEDICA

## **Our Man Outside**

Dr. Harnld M. Childress of Jamestown, N.Y., has called our attention to tible on the recent program of the American Academy of Orthopedic Surgeons in San Francisco:

Hanginan's Fracture-Long-Term

Dr. Childress never saw a haaging, he says, but having once inspected the gallows in San Quentin he believes the follow-up would have to be extremely short. No so, said the authors-Drs. George C. Venters, H. Robert Brasbear, Edwin T. Prestoa, Daniel C. Vinson, all of Chapel Hill, N.C., who presented 30 cases. What they are talking about is a fracture through the neural arch of the second cervical vertebra with or witbout forward subluxation of the vertebral body of C-2 on the vertebral body of C-3. It seems you can get all this without being hanged, whether you deserve it or not.

# Temple Fugit

In Britain commercial TV has panned Shirley Temple movies of the 1930s from children's programs. "Ton mawkish and sentimental to laterest today's children," 'twas said.

So far as we know the Shirley Temple movies were made for adults with mawkish and sentimental ideas about cute little children changing the grown-

The kids knew better.

# Typographical Infection

When a MEDICAL TRIBUNE writer referred to tonsillitis as a changed disease, Dr. J. E. Bowman of 18th Street, Washington, D.C., promptly asked if the change was that he spelled it with

Naturally, that wasn't the change, but it was a typographical infection that spread, it seems, from the writer to the proufreaders to the editors, who went omc siek, siek, sick.



The tissue was infiltrated

# NASA Pump Disrupts Fewer Red Blood Cells and pulsatile signature. Changes in

Continued from page 19 studies performed on the pump in its original form and "it is anticipated that modifications of the pump will

provide further improvement in per-

The research is being conducted by Dr. Henry J. Hoimlich, director of surgery, Jewish Hospital, Cincinnati; Mr. Neil Armstrong, former Apollo astro-naut and now Professor of Aerospace

Engineering at the University of Clncinnatl; Dr. Edward A. Patrick, M.D., Ph.D., Professor of Electrical Engineering, Purdue University and Indi-ana University School of Medicine; and George Rieveschl, Jr., Ph.D., Se.D., vice president for special projects at the University of Cincinnati.

## Physiologic Problems

Existing heart-lung machines can be used safely only for several hours. "Several adverse physiologic effects occur in prolonged pumping of blood with a mechanical pump," tha team explained, "These problems include hemolysis, 'ghoats' (envolopes left over after red blood cells disrupt), anemia, ...increased viscosity, protein dena-turation (particularly albumin destruction), increased plasma turbidity, lipe-mia, and platelet abnormalities (especially thromboembolism and shortened survival of platelets)."

A pump that causes minimal de-Postesses extended use capabilities ward in vivo testing and variations of tremps warm was more as mon repostesses extended use capabilities ward in vivo testing and variations of training program for inactive physics
could help some patients survive an. the pump frequency, displacement,

manin, cardine failure, pulnuonary insufficiently, and other neute and chranie problems, the team indicated.

The Apollo ilouble diaphragm pump Incorporates properties that are desirablo for a heart-lung system...lnw weight, small size, high efficiency, high reliability and direct current operability," according to the team.

Other pumps that have been tested for use in heart-lung systems include the roller pump, the single diaphrsgm pump, the ventricle pump, the impeller pump, the tube compression pump and the cam-driven finger pump. Since the amount of hemolysis is the enterion most often applied to evaluate such pumps, the investigators limited their assessment of the Apollo pump to the degree of resultant hemolysis.

# Canine Blood Used

All tests wern donn at room temperature using fresh canine blood with a hematocrit of more than 35 per cent. Results showed that the average homolytic index of .0032 for the Apollo pump was over ten times better than the best value for the other pumps, which was 0.04.

"Because it was desired to obtain a baseline evaluation of the ADDP, the pump was not modified in any way nor was it preconditioned with anticoagulant or antihemolysis agents or cost-

adequate oxygen support, the team re-Sao Paulo, Rio May Be World's Noisiest Cities

in improve blood compatibility," the

The ADDP is only one aspect of the

team's program to develop artificial

heart-lung systems. Another is a port-

able respirator consisting of an oxygan

support system for victims of emply-

sems and chronic bronchitis. Such a

portable respirator can improve the

quality of life for these persons by al-

lowing them to be ambulatory with

iavestigaturs stated.

Medical Tribune World Service RIO DE JANEIRO-Brazil's São Paulo and Rio De Janeiro may be the two noislest cities in the world, according to the Center for International Environment information.

Downtown São Paulo averages 105 db at street level, while near Rio beach spartments tha level is 85 db. By comparison, mid-Manhattan averages 75

Sound invels double with each 10 db

## Retraining Program Set Medical Tribune Report

PHILADELPHIA-The Medical College of Peansylvania will hold its ninth re-

